

PROJECT LOCATION

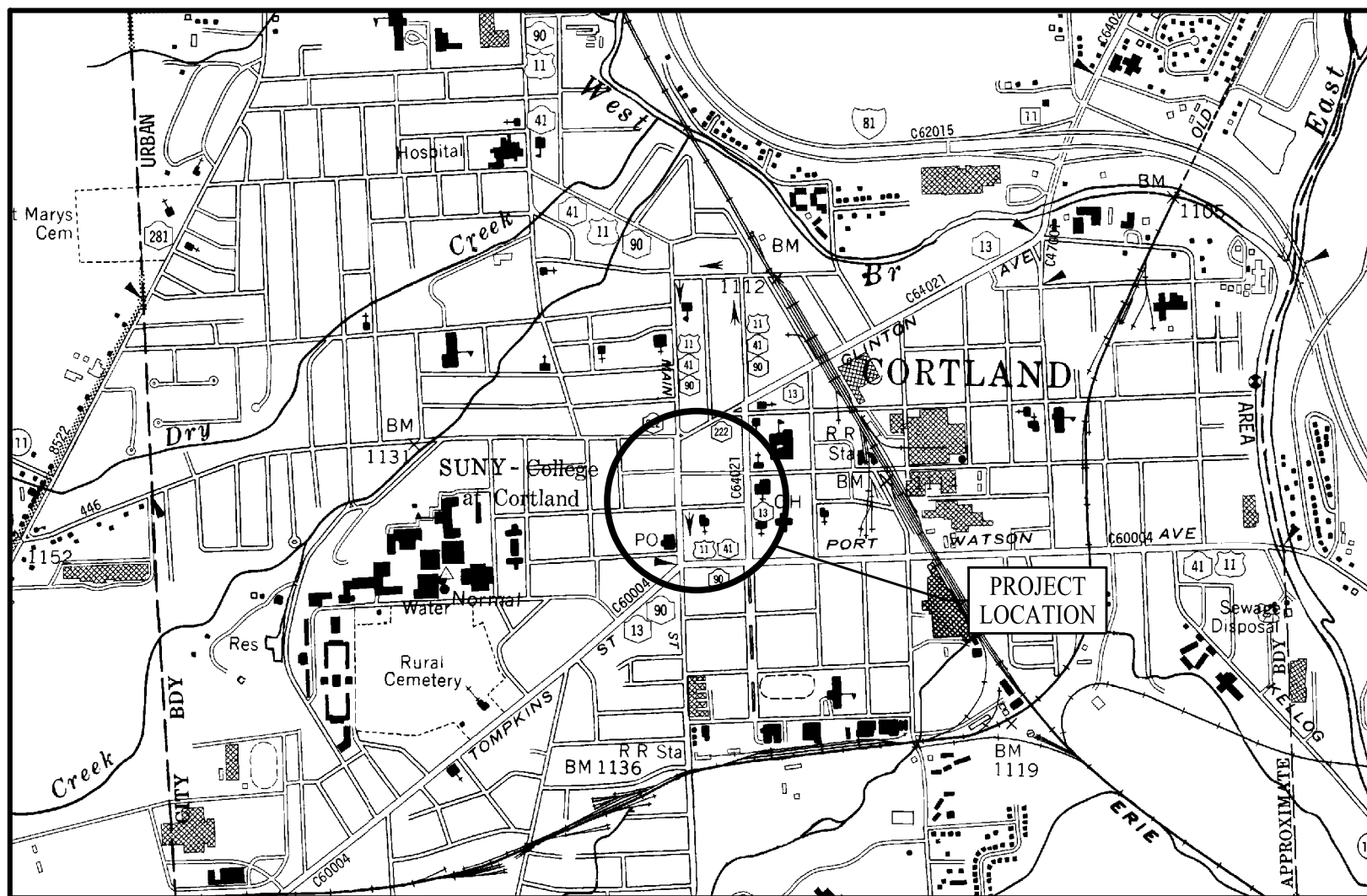
# DOWNTOWN/MAIN STREET REVITALIZATION AND UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND, NEW YORK

THE LATEST REVISIONS OF THE STANDARD SHEETS MAINTAINED BY THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSOT), WHICH ARE CURRENT ON THE DATE OF ADVERTISEMENT FOR BIDS, SHALL BE CONSIDERED TO BE IN EFFECT. ALL PAY ITEMS AND WORK CONTAINED IN THE CONTRACT AND ANY ADDITIONAL PAY ITEMS AND WORK ENCOUNTERED DURING THE COURSE OF THE CONTRACT SHALL BE SUBJECT TO THE APPLICABLE STANDARD SHEET(S) UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.

ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMANCE WITH NYSOT'S STANDARD SPECIFICATIONS (US CUSTOMARY UNITS) OF MAY 1, 2021 WITH CURRENT ADDITIONS AND MODIFICATIONS, EXCEPT AS MODIFIED ON THESE PLANS AND IN THE ITEMIZED PROPOSAL.

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

CONTRACTOR'S NAME _____	
AWARD DATE _____	
COMPLETION DATE _____	
FINAL ACCEPTANCE DATE _____	
RESIDENT ENGINEER _____	
PROJECT MANAGER _____	
FINAL COST TOTAL _____	
FISCAL SHARE _____	COST(S) _____



PROJECT LOCATION

PREPARED AND  
RECOMMENDED BY

*Tim Faulkner*  
TIM FAULKNER P.E.  
NYSPE LIC. NO. 077088  
FISHER ASSOCIATES, PE, LS, LA, DPC

3/24/22  
DATE

APPROVED BY

*Nic Dovi*  
NIC DOVI  
SUPERINTENDENT OF PUBLIC WORKS  
CITY OF CORTLAND

3/24/22  
DATE

**FISHER**   
ASSOCIATES

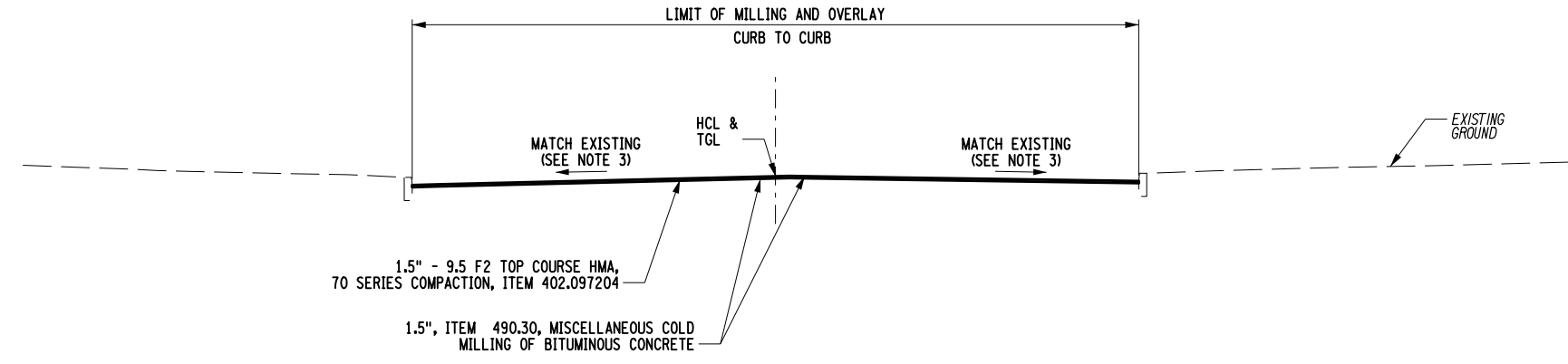
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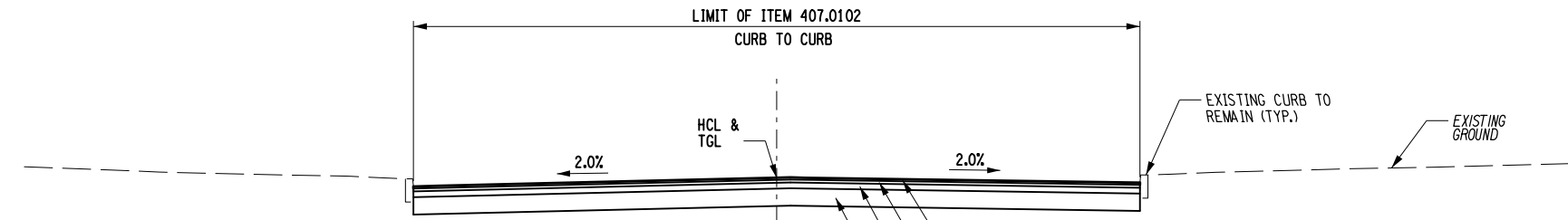
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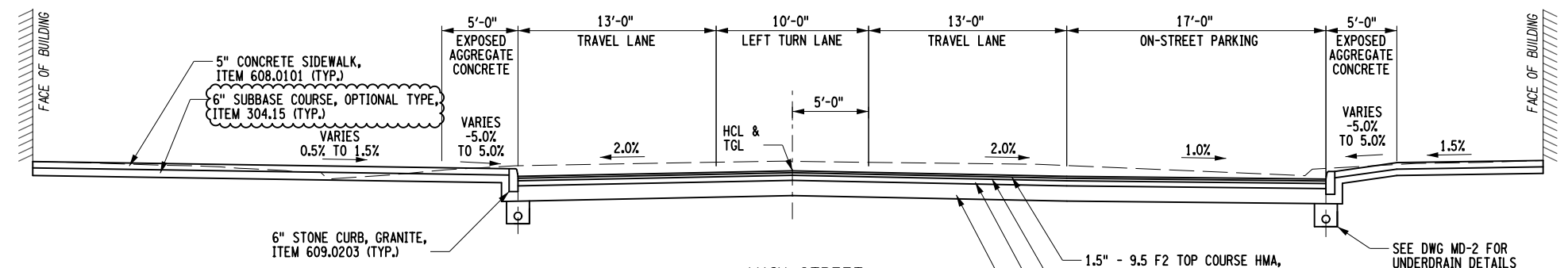




**MILL AND OVERLAY SECTION**  
 STA. M 16+35 TO STA. M 18+50  
 STA. T 5+00 TO STA. T 8+98  
 STA. M 32+19 TO STA. M 35+00  
 STA. CS 9+20 TO STA. CS 10+79  
 STA. CS 12+09 TO STA. CS 12+65  
 NOT TO SCALE



**SIDE STREET FULL DEPTH RECONSTRUCTION**  
 STA. C 1+85 TO STA. C 2+27  
 STA. CS 10+79 TO STA. CS 11+28  
 STA. CS 11+64 TO STA. CS 12+09  
 STA. CA 1+18 TO STA. CA 1+56  
 STA. OS 5+83 TO STA. OS 6+27  
 NOT TO SCALE



**MAIN STREET TYPICAL SECTION - TURN LANE**  
 STA. M 18+50 TO STA. M 20+00  
 NOT TO SCALE

- NOTES:
1. DILUTED TACK COAT, ITEM 407.0102, SHALL BE PLACED ON MILLED SURFACES AND BETWEEN ALL ASPHALT COURSES AND LIFTS.
  2. ASPHALT PAVEMENT JOINT ADHESIVE SHALL BE USED ON THE VERTICAL FACES FOR ALL JOINTS IN THE TOP SURFACE COURSE INCLUDING ALL LONGITUDINAL JOINTS, TRANSVERSE JOINTS, OR OTHER JOINTS BUTTING AGAINST THE NEW ASPHALT SURFACE, ITEM 418.7603 - ASPHALT PAVEMENT JOINT ADHESIVE.
  3. IN THE MILLED AREAS IT IS GENERALLY THE INTENT TO RESURFACE THE EXISTING PAVEMENT IN THE SAME PLANE AND CROSS SLOPE AS CURRENTLY EXISTS AS LONG AS POSITIVE DRAINAGE IS MAINTAINED.

REV	DESCRIPTION	DATE	BY
1	REVISED SUBBASE ITEM #	4/14/22	JNT
2			
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 P.E., L.S., L.A., D.P.C.  
 New York State Education Law Section 1103(1)(b) requires that the seal of any professional engineer or land surveyor, to alter on them in any way, or to use the seal of another professional engineer or land surveyor, is a violation of the law and is prohibited. The seal of any professional engineer or land surveyor, to alter on them in any way, or to use the seal of another professional engineer or land surveyor, is a violation of the law and is prohibited.

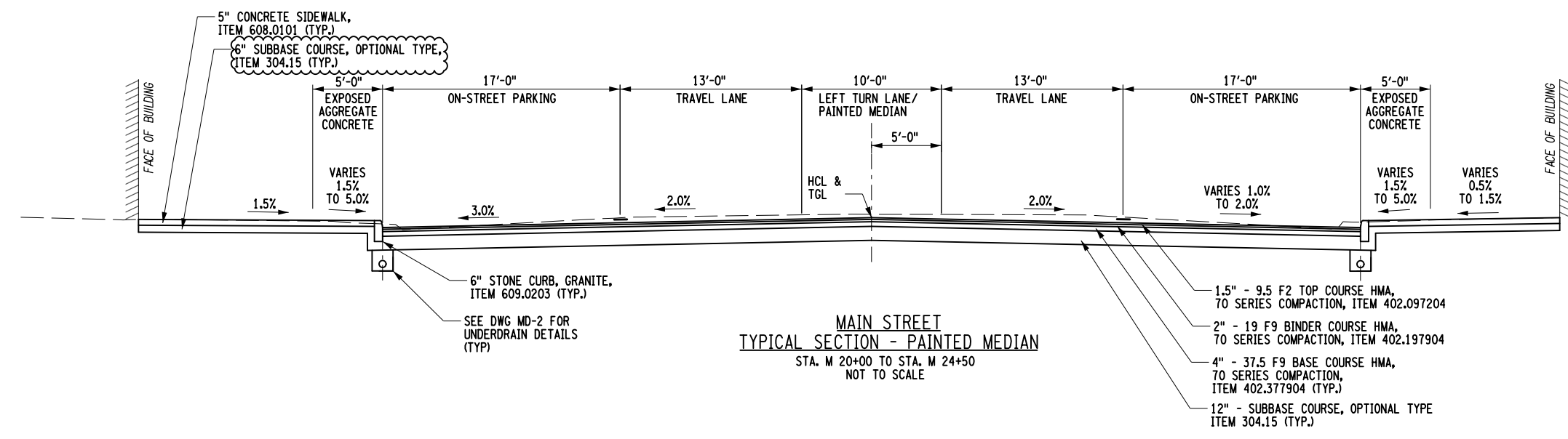
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 PROJECT MANAGER T. FAULKNER  
 DRAWN BY C. CLARK  
 SCALE AS SHOWN  
 ISSUE DATE FEB. 2022



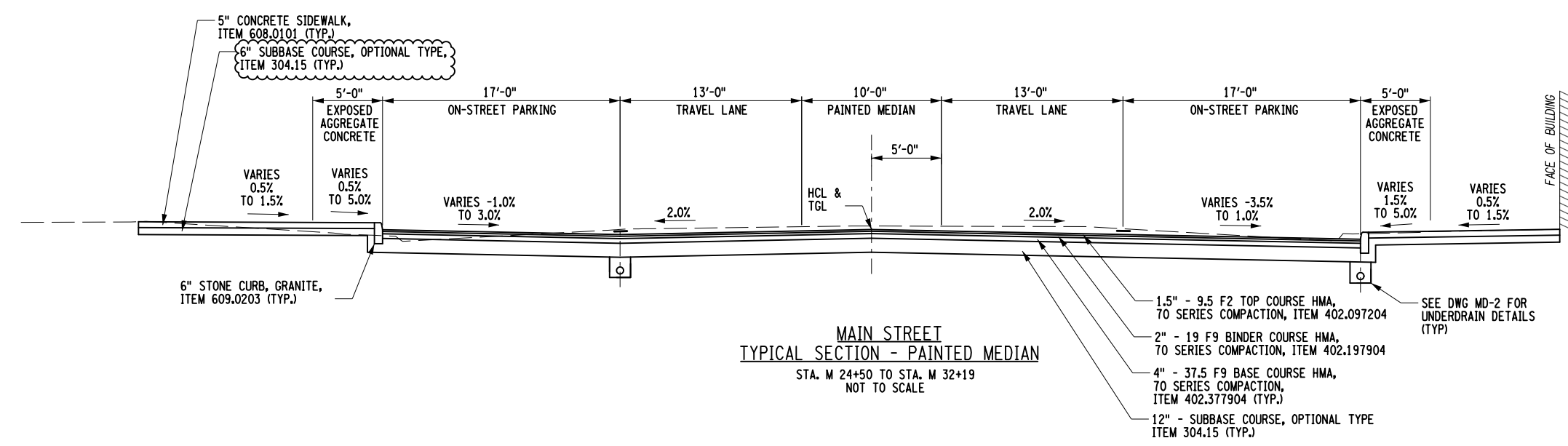
PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT  
 CITY OF CORTLAND  
 CORTLAND COUNTY, NEW YORK

TITLE OF DRAWING: TYPICAL SECTIONS

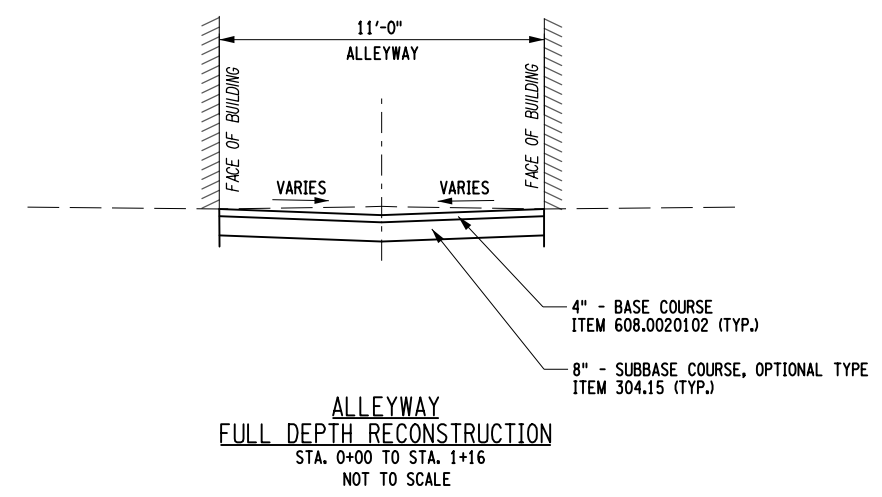
DRAWING NO. TS-01  
 SHEET 4A1 OF 169



**MAIN STREET  
TYPICAL SECTION - PAINTED MEDIAN**  
STA. M 20+00 TO STA. M 24+50  
NOT TO SCALE



**MAIN STREET  
TYPICAL SECTION - PAINTED MEDIAN**  
STA. M 24+50 TO STA. M 32+19  
NOT TO SCALE



**ALLEYWAY  
FULL DEPTH RECONSTRUCTION**  
STA. 0+00 TO STA. 1+16  
NOT TO SCALE

**NOTES:**

1. DILUTED TACK COAT, ITEM 407.0102, SHALL BE PLACED ON MILLED SURFACES AND BETWEEN ALL ASPHALT COURSES AND LIFTS.
2. ASPHALT PAVEMENT JOINT ADHESIVE SHALL BE USED ON THE VERTICAL FACES FOR ALL JOINTS IN THE TOP SURFACE COURSE INCLUDING ALL LONGITUDINAL JOINTS, TRANSVERSE JOINTS, OR OTHER JOINTS BUTTING AGAINST THE NEW ASPHALT SURFACE, ITEM 418.7603 - ASPHALT PAVEMENT JOINT ADHESIVE.

<p>PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK</p>		<p>TITLE OF DRAWING: TYPICAL SECTIONS</p>																	
<p>PROJECT NO.: 200395</p>		<p>ISSUE DATE: FEB. 2022</p>																	
<p>PROJECT MANAGER: T. FAULKNER</p>		<p>SCALE: AS SHOWN</p>																	
<p>DESIGNED BY: C. CLARK</p>		<p>DATE: 4/14/22</p>																	
<p>DRAWN BY: C. CLARK</p>		<p>BY: JNT</p>																	
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**GENERAL NOTES:**

1. CONTRACTOR IS TO FOLLOW ALL PROVISIONS OF NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, EXCEPT FOR THOSE AS REVISED IN SPECIFICATION SECTION OF CONTRACT DOCUMENTS. REVISED SPECIFICATIONS PROVIDED IN SPECIFICATION SECTION OF CONTRACT DOCUMENTS SUPERSEDES APPROPRIATE STANDARD SPECIFICATION.
2. ALL RIGHT-OF-WAY MONUMENTS AND PROPERTY CORNERS ARE TO BE PROTECTED, SAFEGUARDED AND PRESERVED. ALL RIGHT-OF-WAY MONUMENTS OR PROPERTY CORNERS THAT ARE DISTURBED BY CONTRACTOR OPERATIONS DURING CONSTRUCTION OF PROJECT ARE TO BE REPLACED BY NYS LICENSED SURVEYOR, AT CONTRACTOR EXPENSE.
3. SAW CUTS MADE IN ROADWAY ARE TO BE FULL DEPTH, WITH ALL OTHER SAW CUTS BEING MINIMUM OF 2 INCHES IN DEPTH. SAW CUTS WILL BE PAID FOR UNDER ITEM 627.50140008, OR INCLUDED IN RESPECTIVE WORK RELATED ITEM, AS INDICATED IN CONTRACT DOCUMENTS. ALL SAW CUTS ARE TO BE SEALED WITH AN ASPHALT FILLER PER NYSDOT MATERIAL DESIGNATION 702-0500 OR 702-3401, COST OF WHICH IS TO BE INCLUDED IN UNIT PRICE BID FOR RESPECTIVE WORK RELATED ITEM.
4. CONTRACTOR IS TO PROVIDE PROTECTION OF SELECT EXISTING TREES ADJACENT TO WORK THROUGHOUT COURSE OF PROJECT, TO MINIMIZE AS MUCH AS POSSIBLE ANY DAMAGE FROM OCCURRING TO EXISTING TREES AS RESULT OF CONTRACTOR OPERATIONS. TREE PROTECTION IS TO BE PLACED AOB AND IS TO BE IN PLACE BEFORE ANY WORK IS STARTED. CONTRACTOR IS TO BE AWARE OF AND FAMILIAR WITH REQUIREMENTS OF SECTIONS 89-9 TREES AND 89-12 PENALTIES OF CITY CODE AS THEY WILL BE STRICTLY ADHERED TO.
5. ALL SHOP DRAWINGS FOR THIS PROJECT SHALL BE IN U.S. CUSTOMARY UNITS.
6. THE COST OF WATER USED FOR COMPACTION OF SELECT FILL ITEMS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR FILL ITEMS. NO SEPARATE PAYMENT WILL BE MADE.
7. THE COST OF ALL JOINT MATERIAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS ITEMS OF THE CONTRACT, UNLESS OTHERWISE SPECIFIED ON THE PLANS.
8. UNLESS OTHERWISE INDICATED ON THE PLANS, WORK TO BE PERFORMED UNDER THIS CONTRACT DOES NOT REQUIRE THE DISTURBING, DESTRUCTION OR REMOVAL OF ANY KNOWN MATERIALS CONTAINING ASBESTOS. UNLESS OTHERWISE INDICATED ON THE PLANS, IT IS THE EXPRESS INTENT OF THIS CONTRACT THAT THESE MATERIALS NOT BE DISTURBED IN ANY WAY. SHOULD THE CONTRACTOR BE FORCED TO DISTURB IN ANY WAY ANY SUCH MATERIALS, THE CONTRACTOR SHALL FIRST BE FAMILIAR WITH INDUSTRIAL CODE RULE 56 OF THE N.Y.S. DEPARTMENT OF LABOR. THE CONTRACTOR SHALL ALSO OBTAIN WRITTEN PERMISSION OF THE ENGINEER BEFORE PROCEEDING.
9. NO ADDITIONAL PAYMENT WILL BE MADE FOR WORK CALLED FOR BY NOTES ON THE PLANS OR IN THE SPECIFICATIONS UNLESS PAYMENT IS SPECIFICALLY INDICATED BY ITEM NUMBER. THE COST OF WORK FOR WHICH NO PAYMENT ITEM IS INDICATED SHALL BE INCLUDED IN THE UNIT PRICES BID FOR VARIOUS ITEMS OF THE CONTRACT.
10. THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SO THAT ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN THE PROPERTY OF THE CITY, WILL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY MATERIALS WHICH ARE TO REMAIN IN PLACE OR WHICH ARE TO REMAIN THE PROPERTY OF THE CITY, THE DAMAGED MATERIALS SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
11. WHENEVER ITEMS IN THE CONTRACT REQUIRE MATERIALS TO BE REMOVED AND DISPOSED OF, THE COST OF SUPPLYING A DISPOSAL AREA AND TRANSPORTATION TO THAT AREA SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THOSE ITEMS.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO EXISTING PAVEMENT, SIDEWALK, LAWN AREAS, TREES AND OTHER EXISTING FEATURES CAUSED BY HIS OPERATION. ALL SUCH DAMAGE TO EXISTING FEATURES WHICH ARE TO REMAIN SHALL BE REPAIRED OR REPLACED IN KIND BY THE CONTRACTOR AT HIS OWN EXPENSE.
13. ROAD TO BE KEPT CLEAN OF DEBRIS AT ALL TIMES.
14. ROADSIDE DRAINAGE TO BE MAINTAINED AT ALL TIMES.
15. MATERIALS, EQUIPMENT AND VEHICLES ARE NOT TO BE STORED OR PARKED WITHIN THE COUNTY RIGHT-OF-WAY UNLESS THE CONTRACTOR MAKES PRIOR ARRANGEMENTS WITH THE CITY.
16. ALL MATERIALS USED WITHIN THE RIGHT-OF-WAY MUST COMPLY WITH THE CURRENT NEW YORK STATE DEPARTMENT OF TRANSPORTATION'S SPECIFICATIONS ALONG WITH ANY APPROPRIATE CURRENT NYS DEPARTMENT OF TRANSPORTATION'S STANDARD SHEETS.
17. PRIOR TO THE REMOVAL OF ANY PRIVATE SIGNS, FENCES, ETC. WITHIN THE ROW, THE CONTRACTOR SHALL GIVE THE PROPERTY OWNER(S) THREE (3) DAYS ADVANCE NOTICE.
18. TEMPORARY PAVEMENT PLACEMENT DURING WINTER SEASON, NOVEMBER 1ST THRU APRIL 14TH. IF HOT MIX ASPHALT MATERIAL IS NOT AVAILABLE FOR CONSTRUCTING TEMPORARY PAVEMENT SECTION, CONTRACTOR IS TO USE CLASS F CONCRETE. IF PROJECT CALLS FOR USING ASPHALT TEMPORARY PAVEMENT SECTION, AND PROJECT EXTENDS INTO WINTER SEASON, CONTRACTOR WILL BE REQUIRED TO USE TEMPORARY PAVEMENT SECTION CONSISTING OF CONCRETE REGARDLESS OF WHICH ITEM HAS BEEN BID FOR WORK. CONCRETE SECTION IS TO BE 4 INCHES THICK FOR STREETS DESIGNATED AS ARTERIAL AND COLLECTOR STREETS, AND 3 INCHES THICK FOR STREETS DESIGNATED AS LOCAL RESIDENTIAL STREETS AND FOR ALLEYS. CONCRETE IS TO BE BROOM FINISHED.
19. SIDEWALK ACCESS RAMPS ARE TO BE OF TYPE NOTED, AND LOCATED AS SHOWN IN CONTRACT DRAWINGS. HEADER CURB FOR SIDEWALK ACCESS RAMP IS TO BE 5 FEET LONG, WITH TRANSITION CURBS BEING FROM 3 TO 7 FEET IN LENGTH OR AS SHOWN ON PLANS.
20. EXISTING PAVED AREAS THAT ARE NO LONGER NEEDED, ARE TO BE REMOVED AS DESIGNATED IN CONTRACT DRAWINGS. EXCAVATE TO DEPTH THAT IS SUFFICIENT TO REMOVE EXISTING MATERIAL. BACKFILL EXCAVATED AREA TO WITHIN 4 INCHES OF FINISHED GRADE WITH SELECT BACKFILL MATERIAL EXCAVATED FROM PROJECT SITE OR AS SHOWN ON THE LANDSCAPE PLANS. TOPSOIL AND PLANTED TO BE INSTALLED AS SHOWN ON THE LANDSCAPE PLANS.
21. LOCATIONS OF EXISTING UTILITIES BOTH ABOVE GROUND AND BELOW GROUND THAT ARE SHOWN IN CONTRACT DRAWINGS ARE APPROXIMATE ONLY, AND ARE NOT GUARANTEED TO BE ACCURATE OR COMPLETE. ALL EXISTING UTILITIES SHOWN WERE PLOTTED FROM FIELD SURFACE SURVEY DATA AND IN CONJUNCTION WITH RECORD MAPPING SUPPLIED BY RESPECTIVE UTILITY COMPANY. BEFORE COMMENCING ANY WORK, IT IS RESPONSIBILITY OF CONTRACTOR TO HAVE LOCATION OF ALL EXISTING UTILITIES LOCATED WITHIN WORK AREA VERIFIED BY RESPECTIVE UTILITY COMPANY. CONTRACTOR IS TO REQUEST A UTILITY STAKE OUT MINIMUM OF 48 HOURS IN ADVANCE OF COMMENCING ANY WORK, BY CALLING DIG SAFELY NEW YORK, UFPO AT (800) 962-7962.

**UTILITY NOTES:**

1. THE CONTRACTOR SHALL BE REQUIRED TO COORDINATE ALL CONSTRUCTION ACTIVITIES WITH ANY AFFECTED UTILITY COMPANIES
2. EXISTING UTILITIES (LOCATIONS, SIZES, AND INVERTS) SHOWN ON THE PLANS HAVE BEEN PLOTTED FROM THE FIELD SURVEYS AND RECORD MAPS AND ARE NOT CERTIFIED AS TO THE ACCURACY OF THEIR LOCATION OR COMPLETENESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS AND DEPTHS OF ALL UTILITIES AND STRUCTURES IN THE PATH OF OR CLOSELY PARALLEL TO OR UNDER THE PROPOSED CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITY OWNERS IN AMPLE TIME FOR THEM TO LOCATE AND MARK THEIR FACILITIES. THE CONTRACTOR SHALL ALSO NOTIFY CONTROL STAKEOUT AT LEAST 48 HOURS IN ADVANCE OF COMMENCING ANY WORK (UFPO TELEPHONE NO. 1 -800-962-7962) AND ANY UTILITIES NOT SERVED BY UFPO.
3. THE LOCATION, DEPTHS, AND DATA AS TO UNDERGROUND CONDITIONS HAVE BEEN OBTAINED FROM RECORDS, SURFACE INDICATIONS, AND DATA FURNISHED BY OTHERS. THE CONTRACTOR SHALL BE AWARE THAT PAVEMENT TEST BORING DATA IS AVAILABLE FOR THIS PROJECT IN THE CONTRACT SPECIFICATIONS.
4. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PRESERVE THE INTEGRITY OF EXISTING UTILITIES TO REMAIN AND SHALL PROVIDE UNINTERRUPTED SERVICE TO ALL USERS OF THE EXISTING UTILITIES. EXISTING UTILITIES TO REMAIN, ENCOUNTERED IN TRENCH OR PAVEMENT RECONSTRUCTION EXCAVATIONS SHALL BE SUPPORTED AS NECESSARY OR AS ORDERED BY THE RESIDENT ENGINEER. THE COST FOR SUPPORTING UTILITIES SHALL BE INCLUDED IN THE PRICE BID FOR EXCAVATION ITEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THESE UTILITIES CAUSED BY HIS OPERATIONS AND IF THE NATURE OF THE DAMAGE IS SUCH AS TO ENDANGER THE SATISFACTORY OPERATIONS OF THESE UTILITIES, REPAIRS MUST BE MADE BY THE CONTRACTOR OR THE UTILITY COMPANY, AS DETERMINED BY THE RESPECTIVE OWNING UTILITY COMPANY. ANY COSTS BORNE BY THE UTILITY COMPANY FOR THESE REPAIRS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. ADJUSTMENT, RELOCATION OR REPLACEMENT OF EXISTING TELEPHONE, ELECTRIC, GAS, CABLE TELEVISION, AND OTHER PRIVATE UTILITIES NECESSITATED BY THE PROJECT SHALL BE DONE BY OTHERS.
6. THE CONTRACTOR SHALL VERIFY BY FIELD SURVEY ALL EXISTING INVERT ELEVATIONS ON SEWERS TO BE CONNECTED PRIOR TO THE START OF CONSTRUCTION.
7. ALL EXISTING SANITARY OR STORM SEWER LATERALS ENCOUNTERED DURING CONSTRUCTION SHALL BE PROTECTED FROM DAMAGE AND RECONNECTED TO MAIN SEWER AS ORDERED BY THE RESIDENT ENGINEER.
8. ALL OLD DROP INLET FRAMES, GRATES, AND CAPSTONES AND MANHOLE FRAMES AND COVERS SHALL BECOME THE PROPERTY OF THE CITY OF CORTLAND PUBLIC WORKS DEPARTMENT AT NO COST TO THE OWNER. THE CONTRACTOR SHALL STOCKPILE THIS MATERIAL ON SITE IN A SECURE LOCATION AND CONTACT NIC DOVI AT 607-756-6221 TO ARRANGE FOR PICK UP BY CITY FORCES.
9. THE CONTRACTOR SHALL VERIFY THAT THE EXISTING CATCH BASIN LATERALS, WHICH ARE TO REMAIN IN USE, ARE OPERABLE BY CLEANING AND FLUSHING THE LATERALS. THE COST SHALL BE INCLUDED IN THE VARIOUS DRAINAGE ITEMS.
10. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE AND ELEVATION OF ALL EXISTING DRAINAGE PIPES THAT WILL BE RETAINED, PRIOR TO ORDERING NEW DRAINAGE STRUCTURES AND PIPES.
11. THE CONTRACTOR SHALL CONTACT THE VERIZON CONTRACT WORK INSPECTOR, MIKE BRAND, AT (315) 283-5347 TO COORDINATE VERIZON'S PRESENCE ON SITE DURING CONSTRUCTION ACTIVITIES IN CLOSE PROXIMITY TO VERIZON UNDERGROUND FACILITIES.

**HIGHWAY NOTES:**

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO EXISTING PAVEMENT, SIDEWALK, LAWN AREAS, TREES AND OTHER EXISTING FEATURES CAUSED BY HIS OPERATION. ALL SUCH DAMAGE TO EXISTING FEATURES WHICH ARE TO REMAIN SHALL BE REPAIRED OR REPLACED IN KIND BY THE CONTRACTOR AT HIS OWN EXPENSE.
2. AT ALL PAVEMENT LIMIT LINES A BUTT JOINT SHALL BE CONSTRUCTED. THE COST TO CONSTRUCT AND SEAL THE JOINT SHALL BE INCLUDED IN THE ASSOCIATED ASPHALT ITEMS.
3. ROAD TO BE KEPT CLEAN OF DEBRIS AT ALL TIMES.
4. ROADSIDE DRAINAGE TO BE MAINTAINED AT ALL TIMES. STRUCTURES WILL REQUIRE BEING SET TO AN INTERIM GRADE AND ADJUSTED TO FINAL GRADE AS REQUIRED BY CONSTRUCTION SEQUENCING.
5. MATERIALS, EQUIPMENT AND VEHICLES ARE NOT TO BE STORED OR PARKED WITHIN THE COUNTY RIGHT-OF-WAY UNLESS THE CONTRACTOR MAKES PRIOR ARRANGEMENTS WITH THE CITY.
6. ALL MATERIALS USED WITHIN THE RIGHT-OF-WAY MUST COMPLY WITH THE CURRENT NEW YORK STATE DEPARTMENT OF TRANSPORTATION'S SPECIFICATIONS ALONG WITH ANY APPROPRIATE CURRENT NYS DEPARTMENT OF TRANSPORTATION'S STANDARD SHEETS.
7. PRIOR TO THE REMOVAL OF ANY PRIVATE SIGNS, FENCES, ETC. WITHIN THE ROW, THE CONTRACTOR SHALL GIVE THE PROPERTY OWNER(S) THREE (3) DAYS ADVANCE NOTICE.

**ENVIRONMENTAL NOTES:**

1. THE CONTRACTOR IS CAUTIONED THAT SUBSURFACE MATERIALS CONTAINING PETROLEUM PRODUCTS OR OTHER HAZARDOUS MATERIALS MAY EXIST AT THE FOLLOWING SITES:  
 CORTLAND DINER - 117 MAIN STREET: NO RECORDS SUGGEST CONTAMINATED SOIL IS PRESENT, BUT THIS SITE WAS HISTORICALLY A GAS STATION AND UST'S WERE PREVIOUSLY REMOVED.  
 40-42 MAIN ST: UST AND OIL CONTAMINATED SOIL WERE ENCOUNTERED PREVIOUSLY ON THIS SITE. ASSOCIATED CONTAMINATED SOIL WAS REMOVED AND DISPOSED. THIS SPILL IS CONSIDERED CLOSED NY THE NYSDEC.  
 30-36 MAIN ST: NO RECORDS SUGGEST CONTAMINATED SOIL IS PRESENT, BUT UST'S WERE PREVIOUSLY REMOVED. THIS SITE WAS ASSIGNED AS NYSDEC PBS FACILITY NO. 7-990240 AND IS CONSIDERED CLOSED.
2. IF EXCAVATED MATERIAL ARE SUSPECTED TO BE CONTAMINATED FOLLOW ALL RECOMMENDATIONS UNDER NYSDOT STANDARD SPECIFICATIONS SECTION 205 AND CONDUCT ALL TASKS IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS AND AOB.

**RECONSTRUCTION NOTES:**

1. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT, DUE TO THE NATURE OF RECONSTRUCTION PROJECTS, THE EXACT EXTENT OF RECONSTRUCTION WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT OF WORK. THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTION AND OTHER INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO CONSTRUCTION DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH FIELD CONDITIONS.
2. THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SO THAT ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN THE PROPERTY OF THE CITY, WILL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY MATERIALS WHICH ARE TO REMAIN IN PLACE OR WHICH ARE TO REMAIN THE PROPERTY OF THE CITY, THE DAMAGED MATERIALS SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
3. WHENEVER ITEMS IN THE CONTRACT REQUIRE MATERIALS TO BE REMOVED AND DISPOSED OF, THE COST OF SUPPLYING A DISPOSAL AREA AND TRANSPORTATION TO THAT AREA SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THOSE ITEMS.

**EROSION AND SEDIMENT CONTROL GENERAL NOTES:**

1. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL STRICTLY ADHERE TO ALL REQUIREMENTS OF THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITY (GP-0-20-001), THE PROJECT SPECIFIC STORMWATER POLLUTION PREVENTION PLAN (SWPPP), NEW YORK STATE STORMWATER MANAGEMENT DESIGN MANUAL (SMDM), AND ALL OTHER FEDERAL, STATE, OR LOCAL ORDINANCES THAT MAY APPLY DURING CONSTRUCTION OPERATION.
2. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH THIS PROJECT SHALL OBTAIN A COPY OF THE PROJECT SWPPP AND BECOME FAMILIAR WITH ITS CONTENTS. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE CONTRACTORS SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION AT THE DISCRETION OF THE OWNER AND/OR ENGINEER.
3. ALL CONTRACTORS SHALL IMPLEMENT BEST MANAGEMENT SEDIMENT AND EROSION CONTROL PRACTICES AS REQUIRED BY THE NYS STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (BLUE BOOK) AND THE PROJECT SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
4. NO LAND CLEARING, GRADING, OR OTHER LAND DISTURBING ACTIVITIES SHALL BEGIN UNTIL ALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND AUTHORIZATION HAS BEEN GRANTED BY NYSDEC.
5. DRAINAGE PATTERNS SHALL NOT BE CHANGED BY THE CONTRACTOR WITHOUT THE EXPRESS CONSENT OF THE ENGINEER.
6. CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT. AT NO TIME SHALL THE CONTRACTOR DISTURB MORE THAN 5-ACRES AT ANY ONE TIME WITHOUT OBTAINING PRIOR WRITTEN APPROVAL FROM NYSDEC.
7. CONTRACTOR IS RESPONSIBLE FOR KEEPING THE PUBLIC R.O.W AND ROAD PAVEMENTS CLEAN. ANY MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS, FACILITY WALKWAYS, OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
8. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
9. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS AND PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORMWATER DISCHARGE.
10. IF INSTALLATION OF STORM DRAINAGE SYSTEM IS INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.
11. THE SITE SHALL BE GRADED AND MAINTAINED SUCH THAT STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL PRACTICES.
12. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION. EROSION CONTROL BLANKETS OR SIMILAR SLOPE STABILIZATION MEASURES SHALL BE USED ON SLOPES GREATER THAN 3:1.
13. MAINTENANCE OF EROSION & SEDIMENT CONTROLS WILL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR AS SPECIFIED IN THE STORMWATER PERMIT AND ON THESE DRAWINGS. THE CONTRACTOR SHALL DESIGNATE A MEMBER OF THEIR FIRM TO BE RESPONSIBLE TO MONITOR EROSION CONTROL, EROSION CONTROL MEASURES, TREE PROTECTION AND PRESERVATION THROUGHOUT CONSTRUCTION. THIS DESIGNATED PERSON MUST HAVE CURRENT NYSDEC ENDORSED FOUR-HOUR EROSION AND SEDIMENT CONTROL TRAINING CERTIFICATION AND SIGN THE CONTRACTOR CERTIFICATION SHEET IN THE ON-SITE SWPPP BEFORE CONSTRUCTION BEGINS. A DESIGNATED PERSON MUST BE SELECTED FROM EACH CONTRACTOR THAT WILL BE INVOLVED WITH THE ON-SITE EROSION CONTROL MEASURES.
14. CONTRACTOR SHALL BE RESPONSIBLE TO TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION.

NO.	REV	DESCRIPTION	DATE	BY

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 DRAWN BY T. DAVIS  
 SCALE AS SHOWN  
 ISSUE DATE FEB. 2022



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PROJECT MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK  
TITLE OF DRAWING GENERAL NOTES

DRAWING NO.  
**GN-1**

GENERAL WZTC NOTES

- WZTC SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 619-1 OF THE NYS DOT STANDARD SPECIFICATIONS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE NYS SUPPLEMENT TO THE MUTCD, AND ANY PROVISIONS CONTAINED IN THE PLANS AND/OR PROPOSAL OF THIS CONTRACT.
- THE CONTRACTOR SHALL, IN COORDINATION AND WITH THE APPROVAL OF THE EIC, COMBINE REQUIRED WORK ZONE TRAFFIC CONTROL ELEMENTS FROM APPROPRIATE 619 STANDARD SHEETS FOR SITUATIONS WHERE ANY ONE STANDARD SHEET DOES NOT ENTIRELY ADDRESS THE TRAFFIC CONTROL TECHNIQUE TO BE IMPLEMENTED.
- THE TYPICAL DETAILS DEPICTED ON THE STANDARD SHEETS AND IN THE MUTCD, REFLECT THE MINIMUM REQUIREMENTS.
  - THE CONTRACTOR MUST SUBMIT TO THE ENGINEER, IN WRITING, PROPOSED REVISIONS TO THE TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE FIVE (5) WORK DAYS PRIOR TO THE PLANNED IMPLEMENTATION OF SUCH PROPOSED REVISIONS, EXCEPT FOR CHANGES THAT ALTER THE SCOPE OF THE TRAFFIC CONTROL PLAN. SUCH CHANGES IN SCOPE MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE THIRTY (30) WORKING DAYS PRIOR TO IMPLEMENTATION OF SUCH REVISIONS.
  - THE CONTRACTOR SHALL PROVIDE THE ENGINEER, IN WRITING, WITH THE NAMES, ADDRESSES, AND TELEPHONE NUMBERS OF STAFF WHO ARE AUTHORIZED TO SECURE LABOR, MATERIALS, AND EQUIPMENT FOR EMERGENCY REPAIRS OUTSIDE NORMAL WORKING HOURS. THE ENGINEER WILL PROVIDE THE SUBMITTED INFORMATION TO REGIONAL MANAGEMENT, THE NEW YORK STATE POLICE, THE RESIDENT ENGINEER, AND THE LOCAL POLICE.
- SEE SECTION 619-3.02A OF THE NYS DOT STANDARD SPECIFICATIONS, REGARDING TRAFFIC RIDING ON A MILLED SURFACE AND SECTION 619-3.06 CONCERNING THE TEMPORARY PAVEMENT MARKINGS.
- WHEN TYPE III BARRICADES ARE USED NEAR DRIVEWAYS OR INTERSECTIONS THEY SHALL BE PLACED IN SUCH A WAY AS TO NOT OBSCURE SIGHT DISTANCE.
- SHOULDER CLOSURE SHALL REMAIN IN EFFECT WHEN THERE IS A LIP AT THE EDGE OF TRAVEL DUE TO MILLING.
- PAVEMENT MARKINGS SHALL BE REPLACE IN KIND IF NOT SHOWN OTHERWISE ON THE SPM PLANS.

ACTIVITY AREA

- THE CONTRACTOR SHALL MAINTAIN A MINIMUM 500 FT LONGITUDINAL DISTANCE BETWEEN CONSTRUCTION OPERATIONS ON ALTERNATE SIDES OF THE ROADWAY, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- WHEN TWO OR MORE AREAS ARE ADJACENT, OVERLAP, OR ARE IN CLOSE PROXIMITY, THE CONTRACTOR SHALL ENSURE THERE ARE NO CONFLICTING SIGNS AND THAT LANE CONTINUITY IS MAINTAINED THROUGHOUT ALL WORK AREAS.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SIDE STREETS FOR THE DURATION OF THE CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO RESIDENTIAL AND BUSINESS DRIVEWAYS AT ALL TIMES DURING THE DURATION OF THE CONTRACT.
- THE CONTRACTOR SHALL NOT MIX DELINEATION DEVICES IN A LINEAR CLOSURE OR TAPER. HOWEVER, DIFFERENT DELINEATION DEVICES MAY BE USED IN DIFFERENT AREAS OF THE PROJECT.
- VEHICLES BELONGING TO THE CONTRACTOR OR WORKERS SHALL NOT BE PARKED ON THE PAVEMENT OR SHOULDERS ALONG A ROADWAY BEING USED BY THE GENERAL PUBLIC WITHIN THE PROJECT LIMITS.
- THE CONTRACTOR SHALL NOT PARK EQUIPMENT OVERNIGHT WHERE IT IS DEEMED A SAFETY HAZARD TO TRAFFIC.
- ALL TRAVEL AND PARKING LANES SHALL BE CLEARED OF ALL OBSTRUCTIONS, INCLUDING TRAFFIC CONTROL DEVICES, AND MADE SAFE FOR TRAVEL AND RETURNED TO SERVICE AT THE CONCLUSION OF EACH WORKDAY.

SIGNS

- THE LOCATIONS OF THE SIGNS SHOWN ON THE WORK ZONE TRAFFIC CONTROL PLANS AND DETAILS MAY BE ADJUSTED BASED ON SIGHT DISTANCE AND OTHER CONSIDERATIONS. THE FINAL LOCATIONS OF SIGNS ARE SUBJECT TO APPROVAL OF THE ENGINEER.
- ANY EXISTING SIGNS, INCLUDING OVERHEAD SIGNS, WHICH CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL SIGN LAYOUT SHALL BE COVERED, REMOVED, STORED OR RESET, AS APPROVED BY THE ENGINEER. ALL APPROPRIATE EXISTING SIGNS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND/OR LOCATION UNLESS OTHERWISE REPLACED IN THIS CONTRACT.
- SIGNS AT OR NEAR INTERSECTIONS SHALL BE PLACED SO THAT THEY DO NOT OBSTRUCT A MOTORIST'S LINE OF SIGHT.
- ALL WARNING AND REGULATORY SIGNS SHALL BE POSTED ON BOTH SIDES OF MULTI-LANE DIVIDED HIGHWAYS, MULTI-LANE RAMPS, AND ONE-WAY STREETS. IN CASES WHERE LANE RESTRICTIONS REDUCE THE TRAVEL LANE TO ONE LANE, SIGNS SHALL BE POSTED ON THE RIGHT SIDE OF THE ACTIVE TRAVEL LANE, UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.
- THE DIMENSIONS OF WORK ZONE TRAFFIC CONTROL SIGNS ARE DESCRIBED IN THE MUTCD. ANY CHANGES TO THE DIMENSIONS SHALL BE APPROVED BY THE REGIONAL DIRECTOR OR BY HIS/HER DESIGNEE.
- SIGNS NOT APPLICABLE AFTER WORKING HOURS SHALL BE COVERED OR REMOVED FROM THE ROADWAY.
- SIGN LOCATIONS ARE APPROXIMATE; EXACT LOCATIONS SHALL BE DETERMINED BY THE PROJECT ENGINEER.
- SIGN HEIGHT SHALL BE 7' IN AREAS WHERE PEDESTRIANS AND PARKED CARS ARE ENCOUNTERED.
- THE FLAGGER STATION AND LANE CLOSURES SHOULD BE LOCATED TO ENSURE MAXIMUM VISIBILITY.
- "FLAGGER" SIGNS SHALL BE USED WHENEVER FLAGGING OCCURS FOR MORE THAN A BRIEF PERIOD OF TIME. THE SIGN SHALL BE PROMPTLY REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC WHEN THE FLAGGING OPERATION CEASES.
- ALL FLAG TREES SHALL HAVE A MINIMUM OF THREE (3) FLAGS.

CHANNELIZATION DEVICES

- WHERE POSSIBLE ALL CHANNELIZING AND GUIDING DEVICES ARE TO BE PLACED SO AS TO PROVIDE A MINIMUM 2FT LATERAL CLEARANCE TO THE TRAVELED WAY.

LANE CLOSURES

- THE CONTRACTOR SHALL LOCATE LANE CLOSURES TO PROVIDE OPTIMUM VISIBILITY, I.E. BEFORE CURVES AND CRESTS, TO THE EXTENT CONDITIONS PERMIT.
- THE ENGINEER MAY REQUIRE THAT ALL LANES BE RE-OPENED AT ANY TIME IF THE ROUTE IS NEEDED FOR EMERGENCY PURPOSES. THIS COULD INCLUDE INCIDENTS AT LOCATIONS OUTSIDE THE CONTRACT LIMITS.
- NO LANE CLOSURES WILL BE ALLOWED DURING NON-WORKING HOURS AT DESIGNATED LOCATIONS AS APPROVED BY CONTRACT DOCUMENTS OR THE ENGINEER IN CHARGE. NO LONGITUDINAL LANE DROP-OFFS WILL BE ALLOWED AT THE END OF THE WORK DAY. THE CONTRACTOR SHALL PROGRESS OPERATIONS IN A MANNER WHICH WILL PROVIDE THAT THE OPERATION BEING PERFORMED ON A PARTICULAR SECTION OF ROADWAY WILL BE COMPLETED BY THE END OF THE WORKDAY OR PROVIDE OVERNIGHT ROAD PLATING UNLESS OTHERWISE APPROVED BY THE ENGINEER IN CHARGE.

LANE WIDTHS

- UNLESS AUTHORIZED BY THE ENGINEER, THE MINIMUM LANE WIDTHS FOR WORK ZONE TRAVEL LANES SHALL BE AS FOLLOWS:
  - FREEWAYS AND/OR EXPRESSWAYS IS 11 FT.
  - THE MINIMUM LANE WIDTH FOR ALL OTHER TYPES OF ROADWAYS IS 10 FT.

- THE CONTRACTOR SHALL PROVIDE A WRITTEN NOTICE TO THE ENGINEER, A MINIMUM OF 21 CALENDAR DAYS IN ADVANCE OF PERFORMING ANY WORK THAT RESULTS IN THE REDUCED WIDTH OF AN EXISTING ROADWAY, SO THAT THE ENGINEER MAY NOTIFY THE REGIONAL PERMIT ENGINEER IN A TIMELY MANNER.

BICYCLE ACCOMMODATION THROUGH WORK ZONES

- THE CONTRACTOR SHALL ENSURE THAT CONSTRUCTION ACTIVITIES DO NOT INTERFERE WITH THE ABILITY OF BICYCLISTS TO MOVE THROUGH THE WORK ZONE.
- THIS ROUTE DOES NOT HAVE DEDICATED BICYCLE FACILITIES OR IS PART OF THE REGIONAL "ON STREET BICYCLE NETWORK".
- IF THE TRAFFIC CONTROL PLANS ARE TO INCLUDE A SHOULDER CLOSURE, BICYCLISTS WILL NEED TO SHARE THE LANE WITH MOTORISTS. TRAFFIC CONTROL IMPLEMENTED ALONG THE PROJECT LIMITS SHALL INCLUDE THE APPROPRIATE SIGNAGE TO WARN BOTH BICYCLISTS AND MOTORISTS OF THE CHANGE TO A TEMPORARY SHARED LANE FACILITY (MUTCD IN LANE SIGN NYW5-32P).
- THE CONTRACTOR SHALL INSTALL "SHARE THE ROAD" SIGNS AS DIRECTED BY THE E.I.C., USING THE SIGNS BELOW AS DESCRIBED IN THE MUTCD, SIGN W11-1 SHLL BE USED IN CONJUNCTION WITH SIGN W16-1P.

PEDESTRIAN ACCOMMODATION THROUGH WORK ZONES

- THE CONTRACTOR SHALL ENSURE THAT CONSTRUCTION ACTIVITIES DO NOT INTERFERE WITH PEDESTRIAN ACCESS THROUGH THE WORK ZONE.
- THE CONTRACTOR SHALL ENSURE THAT CONSTRUCTION ACTIVITIES DO NOT INTERFERE WITH THE ABILITY OF PEDESTRIANS TO MOVE THROUGH THE WORK ZONE. IN AREAS WHERE THERE ARE NO SIDEWALKS, IT IS EXPECTED THAT PEDESTRIANS WILL USE THE ROAD OR SHOULDER. IN AREAS WITH SIDEWALKS AND CURB RAMPS THE PEDESTRIAN PATH THROUGH THE WORK ZONE SHALL MAINTAIN ACCESSIBILITY, AS DEFINED IN SECTION 619-3.02C OF THE NYS DOT STANDARD SPECIFICATIONS AND THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG).
- PEDESTRIANS SHALL BE DIRECTED, WITH ADVANCED SIGNAGE, TO CROSS AT AN ACCEPTABLE LOCATION PRIOR TO ENTERING A SHOULDER OR LANE CLOSURE WORK ZONE. WHERE POSSIBLE, THESE SIGNS SHALL BE PLACED AT INTERSECTIONS PRIOR TO THE WORK ZONE RATHER THAN AT THE WORK ZONE TO MINIMIZE PEDESTRIAN MIDDLEBLOCK CROSSINGS.
- THE PEDESTRIAN ROUTE THROUGH THE WORK ZONE SHALL MAINTAIN ACCESSIBILITY, AS DEFINED IN SECTION 619-3.02C OF THE NYS DOT STANDARD SPECIFICATIONS AND IN ACCORDANCE WITH THE AMERICANS WITH DISABILITY ACT ACCESSIBILITY GUIDELINES (ADAAG).
- THE CONTRACTOR SHALL NOT DIVERT PEDESTRIAN TRAFFIC ONTO GRASSED AREAS OR OTHER SURFACES THAT ARE NOT ACCESSIBLE TO ADA STANDARDS.
- THE CONTRACTOR SHALL NOT DIVERT PEDESTRIAN TRAFFIC ONTO GRASSED AREAS OR OTHER SURFACES THAT ARE NOT FIRM AND STABLE ADDE. PEDESTRIANS SHALL BE DIRECTED, WITH ADVANCED SIGNAGE, TO CROSS AT AN ACCEPTABLE LOCATION PRIOR TO ENTERING A SHOULDER OR LANE CLOSURE WORK ZONE. WHERE POSSIBLE, THESE SIGNS SHALL BE PLACED AT INTERSECTIONS PRIOR TO THE WORK ZONE RATHER THAN AT THE WORK ZONE TO MINIMIZE PEDESTRIAN MIDDLEBLOCK CROSSINGS. THE PEDESTRIAN PATH THROUGH THE WORK ZONE SHALL BE MAINTAINED, AS DEFINED IN SECTION 619-3.02C OF THE NYS DOT STANDARD SPECIFICATIONS.

GENERAL RIGHT OF WAY NOTE

- ALL WORK TO BE PERFORMED UNDER THIS CONTRACT WILL BE WITHIN THE PUBLIC RIGHT-OF-WAY (ROW) IN ACCORDANCE WITH SECTION 105-15 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR IS TO ASSURE HIMSELF THAT ALL WORK IS BEING PERFORMED WITHIN THE ROW, INCLUDING BUT NOT LIMITED TO VEHICLE ACCESS; STORAGE OF EQUIPMENT, MATERIALS, DEBRIS AND WASTE; LANDSCAPING; VEGETATION REMOVAL AND MANAGEMENT; GRADING, SEEDING AND THE INSTALLATION OF TURF; AND THE INSTALLATION OF ANY FENCES OR PROTECTIVE BARRIER.
  - ALL SIGNS TO BE ERECTED, REPLACED, OR RELOCATED SHALL BE LOCATED WITHIN THE BOUNDS OF PUBLIC RIGHT OF WAY. SIGNS LOCATED INSIDE OF THE SNOW STORAGE AREA ARE ASSUMED TO BE WITHIN THESE LIMITS.
- IF CONTRACTOR IS UNABLE TO IDENTIFY THE LIMITS OF THE RIGHTS-OF-WAY WHEN THE CONTRACT CALLS FOR WORK IN THOSE VICINITIES, THE CONTRACTOR MUST CONTACT THE PROJECT ENGINEER FOR DEFINITIVE BOUNDARY DETERMINATIONS BEFORE ANY WORK MAY BE INITIATED AT THOSE LOCATIONS (STANDARD SPECIFICATIONS SECTIONS 105-10 AND 625).
- IN ACCORDANCE WITH SECTION 105-15 OF THE STANDARD SPECIFICATION, RELEASES FOR ANY NON-ESSENTIAL CONTRACT WORK OUTSIDE OF THE EXISTING RIGHTS-OF-WAY, INCLUDING PLANTINGS, LANDSCAPING OR DRIVEWAY ENHANCEMENTS, WILL BE PROVIDED BY THE PROJECT ENGINEER AND IN NO INSTANCE ARE TO BE SECURED BY THE CONTRACTOR. THE CONTRACTOR SHALL NOT INVADE UPON PRIVATE PROPERTIES, LANDS OR BUILDINGS OUTSIDE OF THE RIGHTS-OF-WAY FOR ANY REASON WITHOUT FIRST SECURING WRITTEN PERMISSION FROM THE PROPERTY OWNER (STANDARD SPECIFICATIONS SECTION 105-15).
- THE CONTRACTOR WILL BE HELD LIABLE FOR ANY DAMAGES DONE. ANY SUCH INJURIES OR DAMAGES SHALL BE SATISFACTORILY REPAIRED OR ITEMS REPLACED AT THE CONTRACTOR'S EXPENSE (STANDARD SPECIFICATIONS SECTION 107-08).

SUGGESTED SCHEDULE OF OPERATIONS

GENERAL NOTES:

- THE FOLLOWING SCHEDULE OF OPERATIONS DETAILS THE PROPOSED CONSTRUCTION SEQUENCE FOR THE PROJECT. ANY MODIFICATION TO THE PROPOSED SCHEDULE MUST BE SUBMITTED IN WRITING FOR APPROVAL BY THE EIC.
- REFER TO THE BASIC WORK ZONE TRAFFIC CONTROL NOTES FOR ADDITIONAL REQUIREMENTS.
- THE CONTRACTOR SHALL COORDINATE THE SCHEDULE OF OPERATIONS WITH ALL UTILITIES TO ENSURE THAT WORK CAN PROGRESS UNIMPEDED BY UTILITY CONFLICTS.

STAGE 1

- PHASE 1 - COURT STREET CLOSED DRAINAGE IMPROVEMENTS
- INSTALL APPROPRIATE CHANNELIZING DEVICES AND CONSTRUCTION SIGNAGE NECESSARY TO MAINTAIN VEHICLE AND PEDESTRIAN TRAFFIC.
  - INSTALL NEW CLOSED DRAINAGE SYSTEM.
  - INSTALL NEW STRIPING IN AREAS REMOVED/DAMAGED DURING STAGE 1/PHASE 1 WORK.

- PHASE 2 - CENTRAL AVENUE CLOSED DRAINAGE IMPROVEMENTS
- INSTALL APPROPRIATE CHANNELIZING DEVICES AND CONSTRUCTION SIGNAGE NECESSARY TO MAINTAIN VEHICLE AND PEDESTRIAN TRAFFIC.
  - INSTALL NEW CLOSED DRAINAGE SYSTEM.
  - INSTALL NEW STRIPING IN AREAS REMOVED/DAMAGED DURING STAGE 1/PHASE 2 WORK.

- PHASE 3 - MAIN STREET WATER AND CLOSED DRAINAGE IMPROVEMENTS
- INSTALL APPROPRIATE CHANNELIZING DEVICES AND CONSTRUCTION SIGNAGE NECESSARY TO MAINTAIN VEHICLE AND PEDESTRIAN TRAFFIC.
  - INSTALL NEW WATER SYSTEM.
  - INSTALL NEW CLOSED DRAINAGE SYSTEM.
  - INSTALL NEW STRIPING IN AREAS REMOVED/DAMAGED DURING STAGE 1/PHASE 3 WORK.

STAGE 2 - MAIN ST. (EAST HALF) RECONSTRUCTION

- INSTALL APPROPRIATE CHANNELIZING DEVICES AND CONSTRUCTION SIGNAGE NECESSARY TO MAINTAIN VEHICLE AND PEDESTRIAN TRAFFIC (WZTC-3 TO WZTC-7).
- INSTALL NEW DRAINAGE SYSTEM.
- INSTALL LIGHTING SYSTEM.
- RECONSTRUCT PAVEMENT AND SIDEWALK AREAS.
- INSTALL NEW LANDSCAPING ITEMS.
- INSTALL FINAL STRIPING AND SIGNAGE.

STAGE 3 - MAIN ST. (WEST HALF) RECONSTRUCTION

- INSTALL APPROPRIATE CHANNELIZING DEVICES AND CONSTRUCTION SIGNAGE NECESSARY TO MAINTAIN VEHICLE AND PEDESTRIAN TRAFFIC (WZTC-8 TO WZTC-14).
- INSTALL NEW DRAINAGE SYSTEM.
- INSTALL LIGHTING SYSTEM.
- RECONSTRUCT PAVEMENT AND SIDEWALK AREAS.
- INSTALL NEW LANDSCAPING ITEMS.
- INSTALL FINAL STRIPING AND SIGNAGE.

STAGE 4

- PHASE 1 - INTERSECTION (MAIN ST. AT TOMPKINS ST.) MILL AND PAVE INTERSECTION AND INSTALL DETECTION
- INSTALL APPROPRIATE CHANNELIZING DEVICES AND CONSTRUCTION SIGNAGE NECESSARY TO MAINTAIN VEHICLE AND PEDESTRIAN TRAFFIC.
  - INSTALL NEW CURB, SIDEWALK AND ADA CURB RAMP.
  - MILL PAVEMENT.
  - INSTALL VIDEO DETECTION.
  - FINAL PAVE TOP COURSE.
  - INSTALL FINAL PAVEMENT MARKINGS.

- PHASE 2 - INTERSECTION (MAIN ST. AT GROTON AVE.) MILL AND PAVE INTERSECTION AND INSTALL DETECTION
- INSTALL APPROPRIATE CHANNELIZING DEVICES AND CONSTRUCTION SIGNAGE NECESSARY TO MAINTAIN VEHICLE AND PEDESTRIAN TRAFFIC.
  - INSTALL NEW CURB, SIDEWALK AND ADA CURB RAMP.
  - MILL PAVEMENT.
  - INSTALL VIDEO DETECTION.
  - FINAL PAVE TOP COURSE.
  - INSTALL FINAL PAVEMENT MARKINGS.

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E.A. PROJECT NO. 200395 PROJECT MANAGER T. FAULKNER DRAWN BY J. GONZALES SCALE AS SHOWN ISSUE DATE FEB. 2022									
PROJECT MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK TITLE OF DRAWING WORK ZONE TRAFFIC CONTROL PLAN GENERAL NOTES DRAWING NO. <b>WZTC-1</b> SHEET 7F1 OF 171									

1. WORK ZONE TRAFFIC CONTROL REVISIONS

PROPOSED REVISIONS TO THE WORK ZONE TRAFFIC CONTROL (WZTC) PLAN OR MODIFICATIONS TO THE 619 STANDARD SHEETS SHALL BE SUBMITTED TO THE ENGINEER FOR THE REVIEW AND APPROVAL BY THE REGIONAL TRAFFIC ENGINEER PRIOR TO THE PLANNED IMPLEMENTATION OF SUCH REVISIONS OR MODIFICATIONS. THE CONTRACTOR SHALL NOT IMPLEMENT THE PROPOSED REVISIONS WITHOUT APPROVAL FROM THE REGIONAL TRAFFIC ENGINEER. WHEN APPLICABLE, NYS DOT WORK ZONE TRAFFIC CONTROL (WZTC) TYPICAL APPLICATIONS SHALL BE USED. TYPICALS CAN BE FOUND AT [HTTPS://WEBAPPS.DOT.NY.GOV/WORK-ZONE-TRAFFIC-CONTROL](https://webapps.dot.ny.gov/work-zone-traffic-control)

2. TRAVEL LANE WIDTHS IN WORK ZONES

WHERE NOT SHOWN IN THE WZTC PLANS OR OTHERWISE AUTHORIZED BY NYS DOT, TRAVEL LANE WIDTHS IN WORK ZONES SHALL BE A MINIMUM OF 11 FT ON FREEWAYS, RAMPS, EXPRESSWAYS AND MULTI-LANE CONVENTIONAL ROADWAYS AND 10 FT ON ALL OTHER CONVENTIONAL ROADWAYS. (MULTI-LANE ROADWAYS ARE THOSE WITH TWO OR MORE THRU LANES IN ONE OR BOTH DIRECTIONS.)

3. DAILY LANE, RAMP AND SHOULDER CLOSURE RESTRICTIONS

WORK ZONES SHALL BE RESTRICTED TO ONE SIDE OF THE ROADWAY AT A TIME IN EACH DIRECTION ON DIVIDED ROADWAYS, UNLESS APPROVED BY THE ENGINEER.

THE CONTRACTOR SHALL SCHEDULE WORK SO THAT ALL TRAVEL LANES AND RAMPS IN EACH DIRECTION ARE OPEN WHEN THE CONTRACTOR'S OPERATIONS ARE CLOSED DOWN OR SUBSTANTIALLY CLOSED DOWN.

DAILY CLOSURES MAY OCCUR OFF OF LONG-TERM CLOSURES AND SHALL BE SUBJECT TO DAILY CLOSURE RESTRICTIONS.

WORK ZONES SHALL BE RESTRICTED TO ONE SIDE OF THE ROADWAY AT A TIME ON UNDIVIDED HIGHWAYS.

4. FLAGGING OPERATIONS

WHEN A PEDESTRIAN APPROACHES A FLAGGER STATION, THE FLAGGER SHALL STOP TRAFFIC AND DIRECT THE PEDESTRIAN TO A SAFE ROUTE THROUGH THE WORK AREA. FLAGGERS SHALL COORDINATE THE FLAGGING OF THE WORK ZONE TO ENSURE PEDESTRIANS CAN SAFELY PROCEED THROUGH THE AREA. IF THERE IS MORE THAN THE OCCASIONAL PEDESTRIAN WITHIN THE PROJECT LIMITS, REFER TO THE SITE SPECIFIC PEDESTRIAN WZTC PLAN.

5. SIGNALIZED INTERSECTIONS

WHEN CONSTRUCTION OPERATIONS EFFECT SIGNALIZED INTERSECTIONS, THE TRAFFIC SIGNAL SHALL BE TURNED OFF BEFORE PROCEEDING WITH THE FLAGGING OPERATION, AND ANY EXISTING W3-3 SIGNS COVERED. THE CONTRACTOR SHALL RETURN THE SIGNAL TO A 3-COLOR OPERATION AT THE END OF THE WORK OPERATION. IF THE SIGNAL DOES NOT RETURN TO 3-COLOR OPERATION, THE CONTRACTOR SHALL NOTIFY THE REGION 3 SIGNAL CREW AND MUST CONTINUE FLAGGING UNTIL THE SIGNAL CREW ARRIVES AND THE SIGNAL IS REPAIRED.

THE CONTRACTOR SHALL OBTAIN A POLICE PANEL KEY FROM, AND RETURN IT TO, THE REGION 3 NYS DOT SIGNAL CREW EIC. THE NYS DOT SIGNAL CREW EIC CAN BE REACHED AT 315-428-4064 OR 315-426-2131.

6. HOLIDAY CLOSURE RESTRICTIONS

DAILY LANE, RAMP AND SHOULDER CLOSURES SHALL NOT BE PERMITTED ON STATE OWNED ROADWAYS DURING MAJOR HOLIDAYS.

2022  
6:00 AM WEDNESDAY, NOVEMBER 23, 2022 THRU 6:00 AM MONDAY, NOVEMBER 28, 2022 - (THANKSGIVING HOLIDAY)  
6:00 AM FRIDAY, DECEMBER 23, 2022 THRU 6:00 AM TUESDAY, DECEMBER 27, 2022 - (CHRISTMAS HOLIDAY)  
6:00 AM FRIDAY, DECEMBER 30, 2022 THRU 6:00 AM TUESDAY, JANUARY 3, 2023 - (NEW YEAR'S HOLIDAY)

2023  
6:00 AM FRIDAY, DECEMBER 30, 2022 THRU 6:00 AM TUESDAY, JANUARY 3, 2023 - (NEW YEAR'S HOLIDAY)  
6:00 AM FRIDAY, MAY 26, 2023 THRU 6:00 AM TUESDAY, MAY 30, 2023 - (MEMORIAL DAY HOLIDAY)  
6:00 AM SATURDAY, JULY 1, 2023 THRU 6:00 AM WEDNESDAY, JULY 5, 2023 - (JULY 4TH HOLIDAY)  
6:00 AM FRIDAY, SEPTEMBER 1, 2023 THRU 6:00 AM TUESDAY, SEPTEMBER 5, 2023 - (LABOR DAY HOLIDAY)  
6:00 AM WEDNESDAY, NOVEMBER 22, 2023 THRU 6:00 AM MONDAY, NOVEMBER 27, 2023 - (THANKSGIVING HOLIDAY)  
6:00 AM FRIDAY, DECEMBER 22, 2023 THRU 6:00 AM TUESDAY, DECEMBER 26, 2024 - (CHRISTMAS HOLIDAY)  
6:00 AM FRIDAY, DECEMBER 29, 2023 THRU 6:00 AM TUESDAY, JANUARY 2, 2024 - (NEW YEAR'S HOLIDAY)

7. NOTIFICATION REQUIREMENTS

REGION 3 HAS A WORK ZONE TRAFFIC CONTROL (WZTC) NOTIFICATION POLICY WHICH REQUIRES ENGINEERS/CONTRACTOR TO NOTIFY THE REGIONAL TRANSPORTATION MANAGEMENT CENTER (RTMC) PRIOR TO ALLOWING A CONTRACTOR TO IMPLEMENT WORK ZONE TRAFFIC CONTROL ACTIVITIES WITHIN THE HIGHWAY RIGHT OF WAY. WORK ZONE NOTIFICATION IS REQUIRED FOR THE FOLLOWING:

ALL OTHER STATE HIGHWAYS: ALL LANE CLOSURES WHOSE DURATION WILL BE GREATER THAN 2 HOURS AND ALL ROAD/BRIDGE CLOSURES.

THE CONTRACTOR SHALL REPORT PROPOSED WZTC ACTIVITIES NOTED ABOVE TO THE TMC BY NOON OF THE BUSINESS DAY (I.E. MONDAY THROUGH FRIDAY EXCLUDING HOLIDAYS) PRECEDING THE PROPOSED WZTC ACTIVITY. FAILURE TO DO SO WILL RESULT IN DISAPPROVAL TO PERFORM THE UNREPORTED WZTC ACTIVITY UNTIL THE ABOVE NOTIFICATIONS REQUIREMENTS ARE SATISFIED.

NO PLANNED WZTC ACTIVITY SHALL BE IMPLEMENTED WITHOUT FIRST RECEIVING CLEARANCE FROM THE RTMC.

8.VEHICLE RESTRICTIONS

THE CONTRACTOR SHALL REPORT ANY RESTRICTION (AS DEFINED BELOW) ON HIGHWAYS, RAMPS, OR BRIDGES AT LEAST SIX (6) BUSINESS WEEKDAYS IN ADVANCE OF THE RESTRICTION. SIX (6) DAYS LEAD TIME IS NECESSARY TO PROVIDE THE RTMC ADEQUATE TIME TO PREVENT ISSUANCE OF SPECIAL HAULING PERMITS THAT WOULD ROUTE OVERSIZE VEHICLES OVER THE RESTRICTED SECTION OF THIS CONTRACT.

RESTRICTIONS SHALL BE DEFINED AS ONE OR MORE OF THE FOLLOWING:

- 1: COMPLETE CLOSURE OF A HIGHWAY, RAMP OR BRIDGE.
2: INSTALLATION OF BARRIER OR CHANNELIZING DEVICES THAT RESULT IN AN UNOBSTRUCTED WIDTH LESS THAN 18 FEET ALONG A HIGHWAY, RAMP OR BRIDGE.
3: SUITABLE DRIVING SURFACES OF LESS THAN 18 FEET IN WIDTH.
4: AVAILABLE VERTICAL CLEARANCE ABOVE THE HIGHWAY IS LESS THAN 14 FEET IN HEIGHT.
5: WORK WOULD LIMIT VEHICLE LENGTH (I.E. TURNING ABILITY)
6: CHANGING THE LOAD CAPACITY OF A HIGHWAY, RAMP OR BRIDGE.

THE CONTRACTOR SHALL ALSO GIVE VERBAL NOTIFICATION AT LEAST SEVEN (7) BUSINESS DAYS (I.E. MONDAY THROUGH FRIDAY EXCLUDING HOLIDAYS) PRIOR TO AND AT THE END OF A RESTRICTION ON ANY ROADWAY TO THE:

CORTLAND COUNTY EMERGENCY CONTROL CENTER (607) 753-7534
ALTERNATE NUMBER (607) 753-7533

9.WORK AREA COORDINATION

THE CONTRACTOR SHALL COORDINATE WORK ACTIVITIES WITH OTHER CONTRACTS WITHIN AND/OR ADJACENT TO THE CONTRACT WORK LIMITS.

10.ACCESS

THE CONTRACTOR SHALL ENSURE THAT ACTIVE LANES OF TRAFFIC ON FREEWAYS ARE NOT CROSSED BY PEDESTRIAN WORKERS. FOR ALL OTHER HIGHWAYS, THE CONTRACTOR SHALL ENSURE THAT PEDESTRIAN WORKERS CROSS ACTIVE LANES OF TRAFFIC ONLY AT PROPERLY MARKED OR UNMARKED CROSSWALKS AND/OR DEDICATED PEDESTRIAN WALKWAYS. IT IS REQUIRED THAT THE PROJECT SAFETY AND HEALTH PLAN ADDRESS ACCESS TO EACH WORK AND STAGING AREA.

WHERE IT IS FEASIBLE, VEHICLES AND EQUIPMENT USED FOR THE WORK AND TRANSPORTING OF WORKERS TO/FROM THE WORK SITE SHALL ENTER AND LEAVE THE AREA CLOSED BY CHANNELIZING DEVICES WITHIN THE TERMINATION AREA OF THE TEMPORARY TRAFFIC CONTROL ZONE. WHERE SUCH ACCESS WITHIN THE TERMINATION AREA IS NOT FEASIBLE, OTHER AREAS FOR ENTRY AND EXIT SHALL BE DETERMINED AND INCLUDED IN THE PROJECT SAFETY & HEALTH PLAN, INCLUDING ILLUSTRATED EXAMPLES (TYPICALS) TO CLEARLY SHOW THE TEMPORARY TRAFFIC CONTROL ELEMENTS THAT WILL BE PROVIDED.

11.CHANNELIZING DEVICES

ALL CHANNELIZING DEVICES SHALL BE PLACED SO AS TO PROVIDE A 2 FOOT LATERAL CLEARANCE TO THE TRAVELED WAY UNLESS OTHERWISE SHOWN ON THE PLANS. WHERE POSSIBLE A LATERAL BUFFER SPACE OF 2 FOOT MINIMUM SHALL BE PROVIDED BETWEEN THE WORK SPACE AND THE CHANNELIZING DEVICES.

CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL BE 40 MAXIMUM FOR POSTED SPEED LIMITS 40 MPH OR GREATER AND 20 MAXIMUM FOR POSTED SPEED LIMITS 35 MPH OR LESS.

STANDARD CONES AND TUBULAR MARKERS SHALL NOT BE USED FOR CHANNELIZATION AND DELINEATION DURING THE HOURS OF DARKNESS, WHICH IS DEFINED AS THE PERIOD BETWEEN SUNSET AND SUNRISE.

12.SIGNS

ALL CONSTRUCTION SIGNS SHALL BE MOUNTED AT A HEIGHT OF 7 FEET ABOVE THE EDGE OF TRAVEL LANE.

SIGNS SHALL NOT ENCR OACH MORE THAN 4" INTO SHOULDERS USED BY PEDESTRIANS OR BICYCLES.

WHERE SHOULDER WIDTHS ARE LIMITED AND SIGNS CANNOT BE ERECTED BEYOND THE SHOULDER, CONSTRUCTION SIGNS MAY NEED TO BE MOUNTED ON CONCRETE MEDIAN BARRIERS, BRIDGE PARAPETS, ETC.

13.REQUIREMENTS FOR VARIABLE MESSAGE SIGNS

- 1.THE USE OF PORTABLE VARIABLE MESSAGE SIGNS (PVMS) IS INTENDED TO ADVISE TRAFFIC OF UPCOMING AND ACTUAL CHANGES TO REGULAR TRAFFIC PATTERNS.
2.THE PVMS SHALL BE PLACED AT THE LOCATIONS SHOWN ON THE WORK ZONE TRAFFIC CONTROL (WZTC) PLANS AND OTHER LOCATIONS SPECIFIED BY THE ENGINEER. THE PVMS SHALL BE PLACED SEVEN (7) DAYS BEFORE ANY BRIDGE/ROAD CLOSURE AND/OR ANY TEMPORARY SIGNAL PLACEMENT IS TO BEGIN AND WILL REMAIN IN PLACE UNTIL ALL WORK WITHIN A DESIGNATED WZTC PHASE HAS BEEN COMPLETED. SEVEN (7) DAYS PRIOR TO A CLOSURE TAKING PLACE, AND/OR ANY TEMPORARY SIGNAL PLACEMENT, THE INITIAL MESSAGE SHOWN IN THE CONTRACT PLANS SHALL BE DISPLAYED. ONCE THE CLOSURE HAS TAKEN PLACE AND/OR TEMPORARY SIGNAL IS ACTIVATED, THE PVMS SHALL REMAIN ON FOR THE DURATION OF THE CLOSURE AND/OR ACTIVATED TEMPORARY SIGNAL DISPLAYED WITH THE MESSAGE SHOWN IN THE PLANS.
3.PVMS UNITS TO BE LOCATED WITHIN SHOULDER CLOSURE PER STANDARD SHEET 619-22 WHEN LOCATED WITHIN CLEAR ZONE.
4.PVMS UNITS LOCATED BEHIND GUIDE RAIL SHALL NOT BE LOCATED WITHIN RAIL DEFLECTION DISTANCE. SEE SECTION 619 OF THE STANDARD SPECIFICATIONS.
5.PVMS UNITS SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH SECTION 619 OF THE STANDARD SPECIFICATION AND ITEM 619.111111.
6.SEE DRAWING NOS. WZTC-1 TO WZTC-14 FOR PORTABLE VARIABLE MESSAGE SIGN (PVMS) LOCATIONS.
7.THE CONTRACTOR SHALL PROVIDE THE EIC WITH THE MODEL, MANUFACTURER DATE AND MANUFACTURER OF WHICH THE NATIONAL TRANSPORTATION COMMUNICATION FOR ITS PROTOCOL (NTCIP) COMPLIANT PVMS THE CONTRACTOR PLANS TO USE FROM THE DEPARTMENT'S APPROVED LIST. THE PVMS WILL NEED TO ACCEPT ANY COMMUNICATIONS FROM THE NYS DOT REGIONAL TRANSPORTATION MANAGEMENT CENTER (TMC) IN SYRACUSE, NY.

14.DELINEATORS

SINGLE LARGE DELINEATORS WITH RETROREFLECTIVE ASTM TYPE IX SHEETING 6 X 12 , SHALL BE INSTALLED AT 20 FOOT INTERVALS FOR ALL LOCATIONS WHERE TEMPORARY CONCRETE BARRIER IS USED AND FOR ALL LOCATIONS WHERE PERMANENT CONCRETE BARRIER, GUIDE RAILING, AND/OR BRIDGE RAILING IS ADJACENT TO A LANE AND/OR SHOULDER WHERE THE WIDTH IS LESS THAN EXISTING. THE COLOR OF THE RETROREFLECTIVE DELINEATOR SURFACE SHALL MATCH THE COLOR OF THE EDGE OF PAVEMENT MARKINGS AS VIEWED BY APPROACHING TRAFFIC. DELINEATORS SHALL BE CLEARLY VISIBLE UNDER NORMAL CONDITIONS FROM A DISTANCE OF 1000 FEET WHEN ILLUMINATED BY THE HIGH BEAMS OF STANDARD AUTOMOBILE HEADLIGHTS. THE COST (INCLUDING REMOVAL) SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.01, BASIC WORK ZONE TRAFFIC CONTROL.

15.NON-PAYMENT

THE CONTRACTOR'S FAILURE TO COMPLY WITH THE REQUIREMENTS AS STATED ABOVE WILL BE CONSIDERED UNSATISFACTORY TEMPORARY WORK ZONE TRAFFIC CONTROL. PAYMENT WILL BE WITHHELD FOR THE VARIOUS CONTRACT ITEMS WHICH CONTAIN WORK ZONE TRAFFIC CONTROL PROVISIONS IN ACCORDANCE WITH TABLE 619-7 FOR EACH DAY THAT A FAILURE TO COMPLY OCCURS. FAILURE TO COMPLY WILL ALSO RESULT IN THE ASSESSMENT OF LIQUIDATED DAMAGES FOR EACH VIOLATION. WINTERING OVER

PRIOR TO THE WINTER SEASON, IF THE TOP PAVEMENT COURSE IS PLACED, SHOULDER MIARDS SHALL BE INSTALLED AND FINAL PAVEMENT MARKINGS OR FINAL FULL WIDTH TEMPORARY PAVMENT MARKINGS SHALL BE APPLIED. IF THE BINDER PAVEMENT COURSE IS WHAT TRAFFIC WILL TRAVEL ON, FINAL FULL WIDTH TEMPORARY PAVEMENT MARKINGS SHALL BE INSTALLED. WORK PROGRESS AND DAILY LANE CLOSURES DURING THE WINTER SEASON WILL ONLY BE ALLOWED IF WEATHER CONDITIONS PERMIT. IF, IN THE OPINION OF THE ENGINEER, WEATHER CONDITIONS WILL NOT PERMIT WORK TO BE PERFORMED SAFELY, LANE CLOSURES WILL NOT BE ALLOWED. THE CONTRACTOR SHALL REPLACE ANY CHANNELIZING DRUMS DISPLACED OR DAMAGED BY PLOWING OPERATIONS.

16.MISCELLANEOUS (LOCAL OR PERMIT PROJECTS)

1.THE CONTRACTOR SHALL BE AWARE THAT THE WORK ZONE TRAFFIC CONTROL IS A VERY CRITICAL ITEM OF THE PERMIT AND SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 619 WORK ZONE TRAFFIC CONTROL OF THE STANDARD SPECIFICATIONS, THE 2009 EDITION OF THE NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND THE NEW YORK STATE SUPPLEMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WORK ZONE TRAFFIC CONTROL AT ALL TIMES FOR THE DURATION OF THE PERMITTED WORK.

2.ACTUAL FIELD CONDITIONS MAY REQUIRE OTHER SIGNS AND OTHER ARRANGEMENTS OF SIGNS. DISTANCES SHALL BE ADAPTED TO PREVAILING CONDITIONS. SIGNS SHALL BE LOCATED TO PROVIDE OPTIMUM VISIBILITY. SIGNS THAT ARE NOT APPLICABLE SHALL BE COVERED OR OBFUSCURED FROM SIGHT. ALL SIGN NUMBERS REFER TO THE 2009 EDITION OF THE NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND THE NEW YORK STATE SUPPLEMENT.

3.PEDESTRIAN ACCOMMODATIONS SHALL BE MAINTAINED FOR THE DURATION OF THE PROPOSED WORK. ANY DISTURBED AREAS WITHIN THE STATE RIGHT-OF-WAY SHALL BE ADEQUATELY FENCED TO PREVENT PEDESTRIAN ACCESS WHEN THE CONTRACTORS OPERATIONS ARE SHUT DOWN.

4.MATERIALS, EQUIPMENT AND VEHICLES SHALL NOT BE STORED OR PARKED WITHIN THE STATE RIGHT-OF-WAY BEFORE WORK BEGINS OR AFTER CONTRACTOR'S OPERATIONS ARE SHUT DOWN. STAGING AREAS OUTSIDE THE RIGHT-OF-WAY SHALL BE USED TO STOCKPILE ALL CONSTRUCTION MATERIALS.

DURING WORKING HOURS, NO CONSTRUCTION MATERIAL MAY BE STORED OR PLACED ON THE ROADWAY OR ROADBED EXCEPT WITHIN A PROTECTED WORK AREA.

5.VEHICLES BELONGING TO THE CONTRACTOR OR WORKERS SHALL NOT BE PARKED WITHIN 30 FEET OF THE EDGE OF PAVEMENT ALONG A ROADWAY BEING USED BY THE GENERAL PUBLIC, UNLESS THEY ARE PARKED WITHIN A PROTECTED WORK AREA.

DURING NON-WORKING HOURS, CONSTRUCTION EQUIPMENT AND MATERIALS SHALL NOT BE STORED WITHIN 30 FEET OF THE EDGE OF PAVEMENT.

6.W20-7A FLAGGER SIGNS SHALL BE USED WHENEVER FLAGGING OCCURS FOR MORE THAN A BRIEF PERIOD OF TIME. THE SIGNS SHALL BE PROMPTLY REMOVED, COVERED, OR FACED AWAY FROM TRAFFIC WHEN THE FLAGGING OPERATION CEASES.

ALL FLAGGING STATIONS AND LANE CLOSURES SHOULD BE LOCATED TO ENSURE MAXIMUM VISIBILITY.

7.NO DROP-OFF GREATER THAN SIX INCHES SHALL BE LEFT OVERNIGHT WITHIN 30 FEET OF THE EDGE OF PAVEMENT. DROP-OFFS LESS THAN SIX INCHES WILL BE PERMITTED IF PROPER DELINEATION AND SIGNING IS PROVIDED, AND PRIOR PERMISSION IS GRANTED IN WRITING BY A REPRESENTATIVE OF THE DEPARTMENT. A DROP-OFF IS CONSIDERED ELIMINATED IF TAPERED AWAY BY A 1 ON 6 SLOPE OR FLATTER.

8.CARE SHALL BE TAKEN TO INSURE THAT NO DAMAGE OCCURS TO THE EXISTING PAVEMENT/SHOULDER/CURB AREAS AS A RESULT OF CONSTRUCTION EQUIPMENT MOVEMENT.

9.THE CONTRACTOR MAY SUBMIT REVISIONS TO THIS PLAN FOR APPROVAL, BUT ANY CHANGE THAT ALTERS THE BASIC CONCEPTS OF THE PLAN MUST BE APPROVED BY THE NYS DOT REGIONAL DIRECTOR OR HIS DESIGNEE.

Project information including: PROJECT (MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK), TITLE OF DRAWING (WORK ZONE TRAFFIC CONTROL PLAN GENERAL NOTES), DRAWING NO. (WZTC-1), SHEET 7F2 OF 171, and various stamps including the Professional Engineer seal for J. Gonzales.

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28-OCT-2022 10:46 AM  
Jaymes



SUMMARY OF WORK ZONE TRAFFIC CONTROL (WZTC)				
STAGE/ PHASE/ LOCATION	DESCRIPTION OF PROPOSED WORK	ANTICIPATED WZTC REQUIRED	STANDARD SHEETS/ WZTC DRAWING	STAGE/PHASE/LOCATION TIME RESTRICTION
STAGE 1  PHASE 1 COURT ST.  PHASE 2 CHURCH ST.  PHASE 3 CENTRAL AVE.	DRAINAGE INSTALLATION  WATER MAIN INSTALLATION  MISCELLANEOUS PAVEMENT MARKINGS	SINGLE LANE CLOSURES  FLAGGING OPERATIONS	619-20, 619-30, 619-41, 619-60, 619-61, 619-63, 619-64, 619-66	
STAGE 2  PHASE 1 MAIN ST. AT TOMPKINS ST. INTERSECTION  PHASE 2 MAIN ST. AT GROTON AVE. INTERSECTION	SIGNAL INSTALLATION  SIDEWALK CURB RAMP INSTALLATION	SINGLE LANE CLOSURES  FLAGGING OPERATIONS	619-50, 619-51, 619-60, 619-61	
STAGE 3	FULL DEPTH RECONSTRUCTION, SIDEWALK, LANDSCAPING, CLOSED DRAINAGE, WATER, SIGNAL, LIGHTING, SIGNAGE AND PAVEMENT MARKINGS FOR THE EAST HALF OF MAIN STREET	SINGLE LANE CLOSURES  SIDEWALK CLOSURES  FLAGGING OPERATIONS	916-51, 619-61 WZTC-3 TO WZTC-7	
STAGE 4	FULL DEPTH RECONSTRUCTION, SIDEWALK, LANDSCAPING, CLOSED DRAINAGE, WATER, SIGNAL, LIGHTING, SIGNAGE AND PAVEMENT MARKINGS FOR THE WEST HALF OF MAIN STREET	SINGLE LANE CLOSURES  SIDEWALK CLOSURES  FLAGGING OPERATIONS	619-51, 619-61 WZTC-8 TO WZTC-14	
STAGE 5  PHASE 1 MAIN ST. AT TOMPKINS ST. INTERSECTION  PHASE 2 MAIN ST. AT GROTON AVE. INTERSECTION	MILL AND PAVE TOP COURSE ASPHALT  TRAFFIC SIGNAL LOOP INSTALLATION  FINAL PAVEMENT MARKINGS	FLAGGING OPERATIONS	619-60, 619-61	

PROJECT MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK		TITLE OF DRAWING WORK ZONE TRAFFIC CONTROL TABLE SUMMARY OF WORK ZONE TRAFFIC CONTROL	
DRAWING NO. <b>WZTC-2</b>		SHEET 8 OF 169	
PROJECT NO. 200395		PROJECT MANAGER T. FAULKNER	
DRAWN BY C. CLARK		SCALE AS SHOWN	
ISSUE DATE FEB. 2022		AS SHOWN	
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3	2	1	REV
			DESCRIPTION
			DATE
			BY



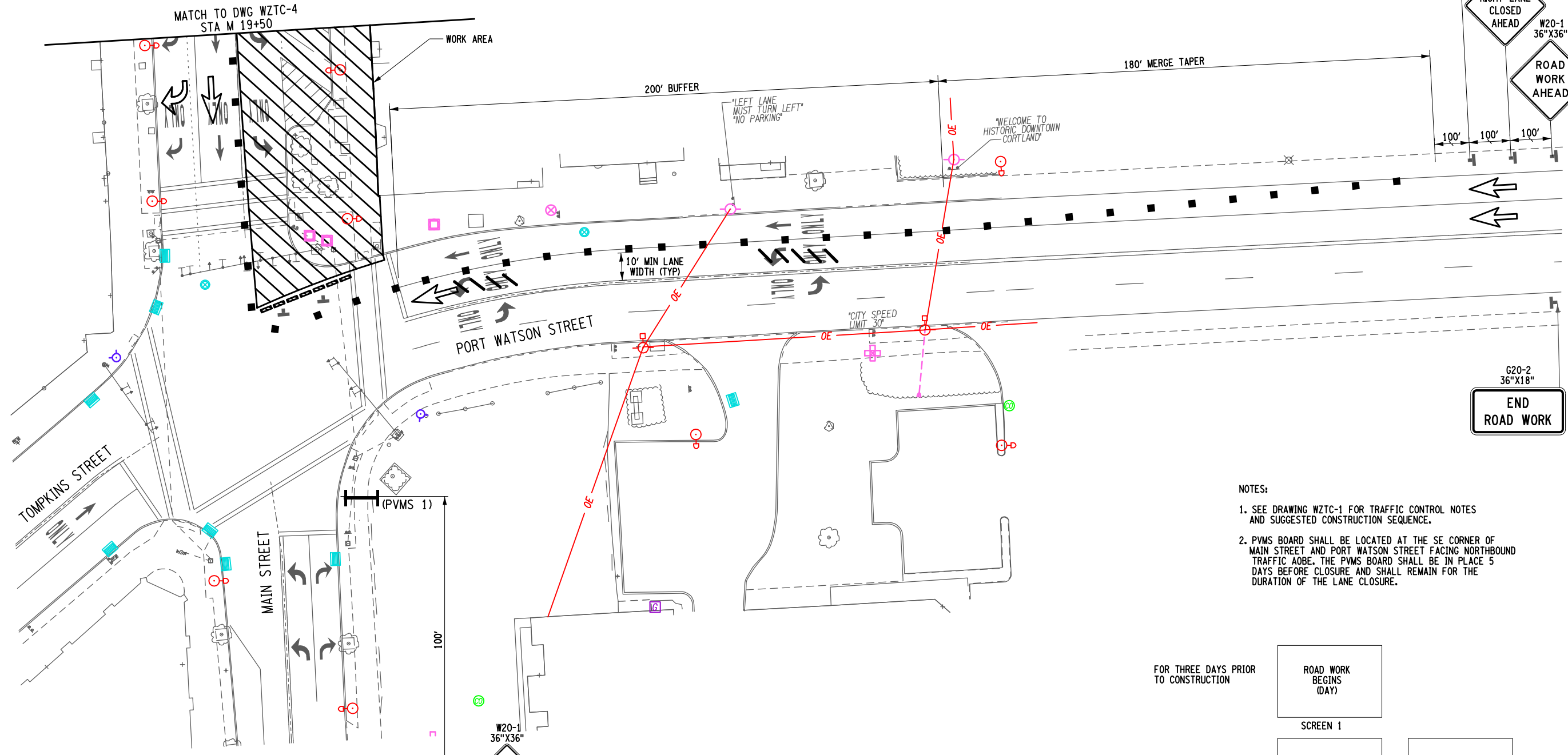
REV	DESCRIPTION	DATE	BY
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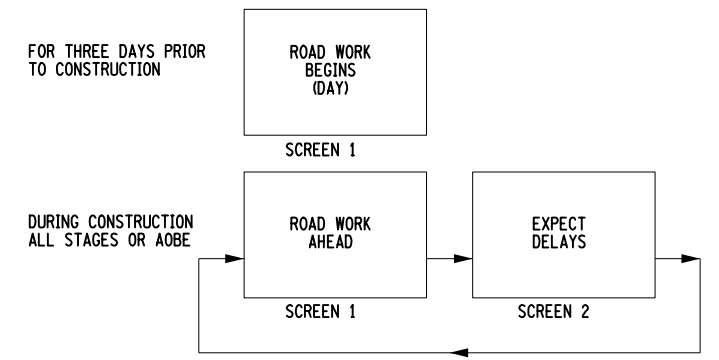
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PROJECT MANAGER  
T. FAULKNER  
DRAWN BY  
T. DAVIS  
SCALE  
AS SHOWN  
ISSUE DATE  
FEB. 2022



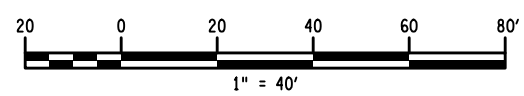
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MAIN STREET UTILITY  
IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK  
TITLE OF DRAWING  
WORK ZONE TRAFFIC CONTROL PLAN  
STAGE 3



- NOTES:
- SEE DRAWING WZTC-1 FOR TRAFFIC CONTROL NOTES AND SUGGESTED CONSTRUCTION SEQUENCE.
  - PVMS BOARD SHALL BE LOCATED AT THE SE CORNER OF MAIN STREET AND PORT WATSON STREET FACING NORTHBOUND TRAFFIC ABOVE. THE PVMS BOARD SHALL BE IN PLACE 5 DAYS BEFORE CLOSURE AND SHALL REMAIN FOR THE DURATION OF THE LANE CLOSURE.

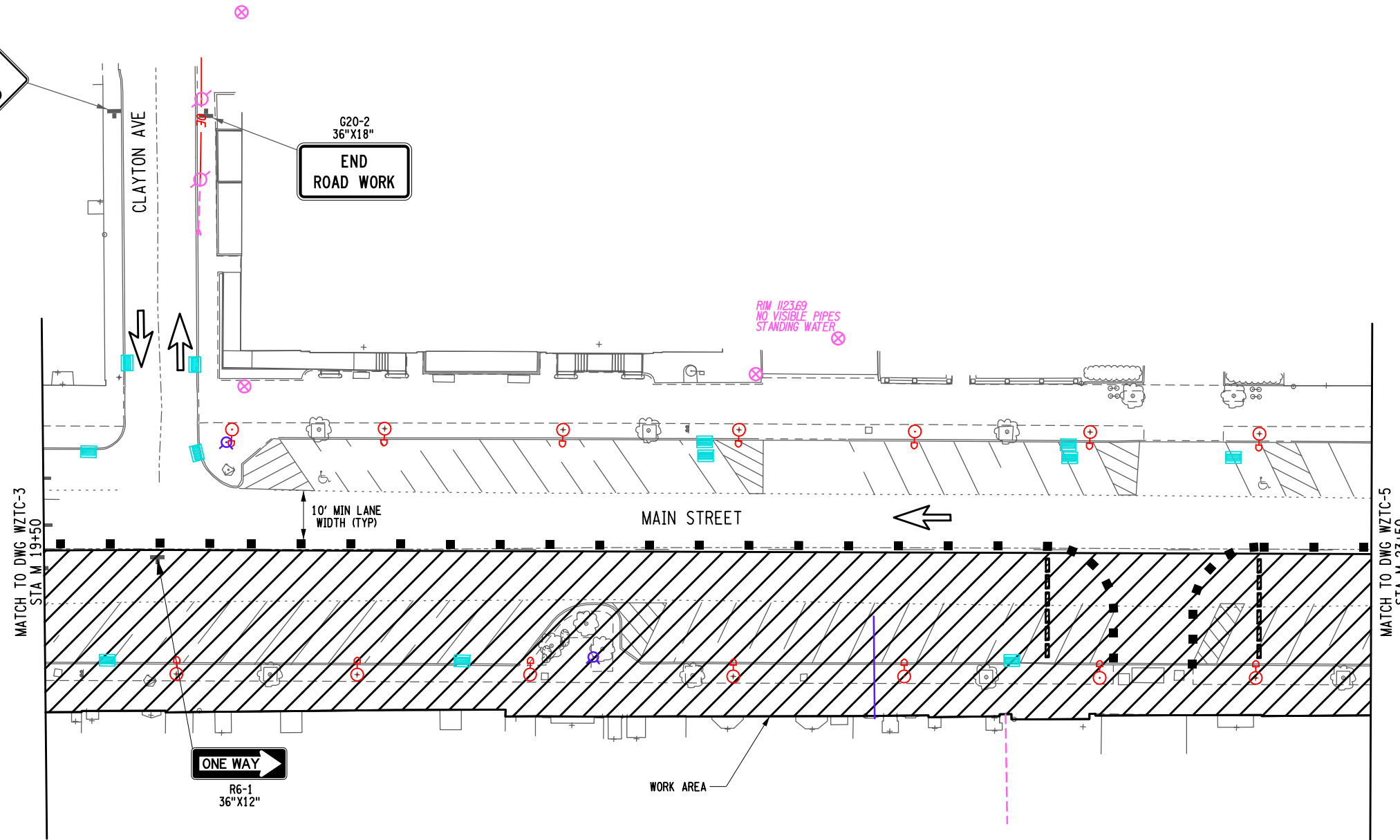
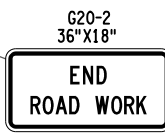


PVMS MESSAGE DETAIL  
ITEM 619.111111



LEGEND	
	BARRICADE (TYPE III)
	DIRECTION OF TRAFFIC
	SIGN (TEMPORARY)
	CHANNELIZING DEVICE
	CHANGEABLE MESSAGE SIGN (PVMS)
	PAVEMENT MARKING REMOVAL OR COVERING
	WORK AREA

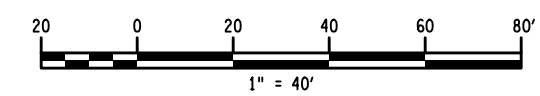
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LEGEND	
	BARRICADE (TYPE III)
	DIRECTION OF TRAFFIC
	SIGN (TEMPORARY)
	CHANNELIZING DEVICE
	CHANGEABLE MESSAGE SIGN (PVMS)
	PAVEMENT MARKING REMOVAL OR COVERING
	WORK AREA

NOTE:  
1. SEE DRAWING WZTC-1 FOR TRAFFIC CONTROL NOTES AND SUGGESTED CONSTRUCTION SEQUENCE.



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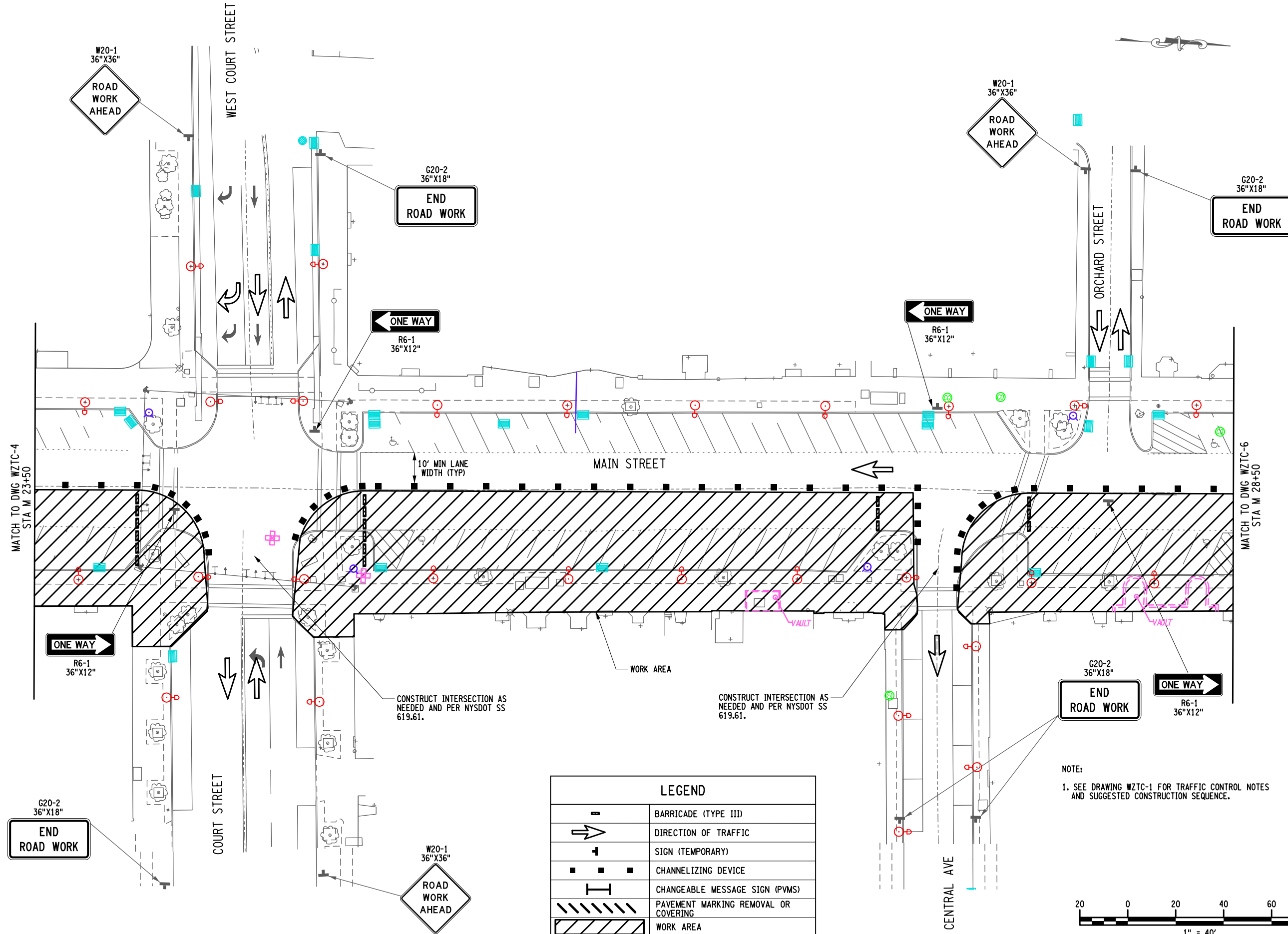
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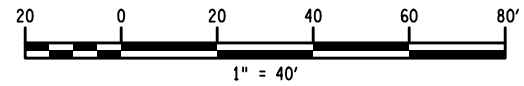
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MAIN STREET UTILITY  
IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK  
TITLE OF DRAWING  
WORK ZONE TRAFFIC CONTROL PLAN  
STAGE 3

DRAWING NO.  
**WZTC-4**  
SHEET 10F1 OF 171



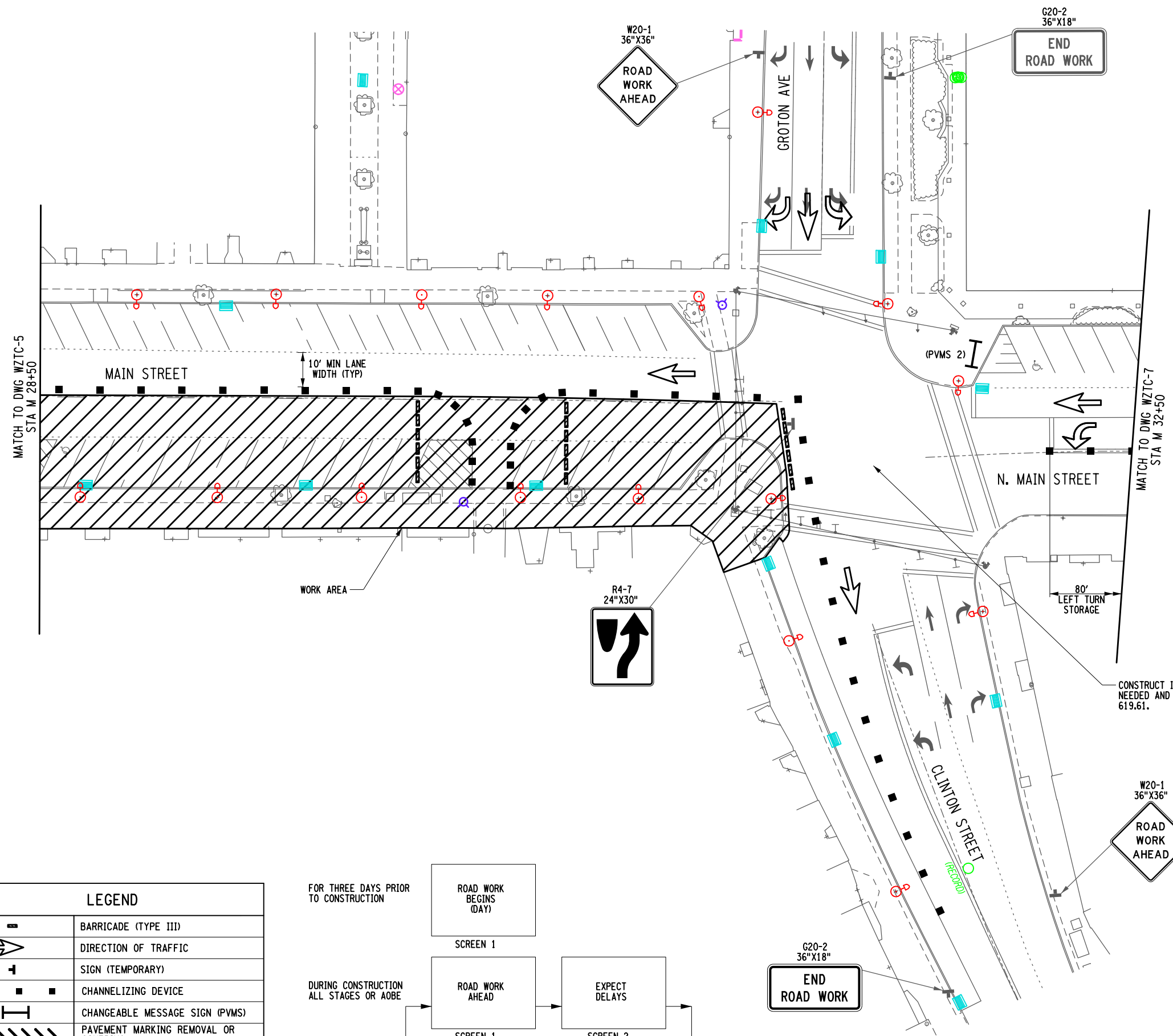
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	BARRICADE (TYPE III)
	DIRECTION OF TRAFFIC
	SIGN (TEMPORARY)
	CHANNELIZING DEVICE
	CHANGEABLE MESSAGE SIGN (PVMS)
	PAVEMENT MARKING REMOVAL OR COVERING
	WORK AREA

NOTE:  
1. SEE DRAWING WZTC-1 FOR TRAFFIC CONTROL NOTES AND SUGGESTED CONSTRUCTION SEQUENCE.

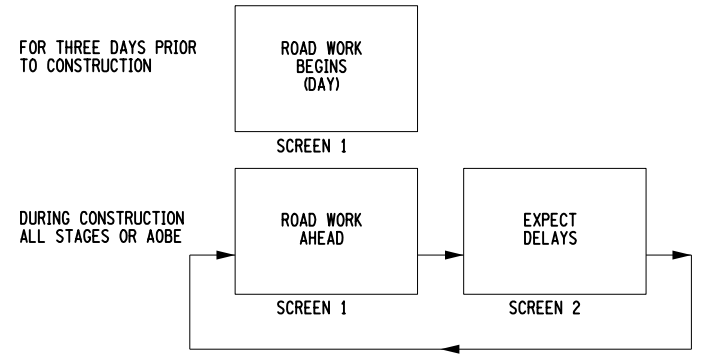


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<p>PROJECT MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK</p>		<p>TITLE OF DRAWING WORK ZONE TRAFFIC CONTROL PLAN STAGE 3</p>																																	
<p>DRAWING NO. <b>WZTC-5</b></p>		<p>SHEET 11F1 OF 171</p>																																	
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<p>EA PROJECT NO. 200395 PROJECT MANAGER T. FAULKNER DRAWN BY T. DAVIS SCALE AS SHOWN</p>		<p>ISSUE DATE FEB. 2022</p>																																	
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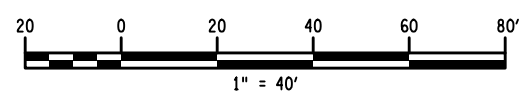


LEGEND	
	BARRICADE (TYPE III)
	DIRECTION OF TRAFFIC
	SIGN (TEMPORARY)
	CHANNELIZING DEVICE
	CHANGEABLE MESSAGE SIGN (PVMS)
	PAVEMENT MARKING REMOVAL OR COVERING
	WORK AREA



PVMS MESSAGE DETAIL  
ITEM 619.111111

- NOTES:
- SEE DRAWING WZTC-1 FOR TRAFFIC CONTROL NOTES AND SUGGESTED CONSTRUCTION SEQUENCE.
  - PVMS BOARD SHALL BE LOCATED AT THE SE CORNER OF MAIN STREET AND PORT WATSON STREET FACING NORTHBOUND TRAFFIC AOB. THE PVMS BOARD SHALL BE IN PLACE 5 DAYS BEFORE CLOSURE AND SHALL REMAIN FOR THE DURATION OF THE LANE CLOSURE.



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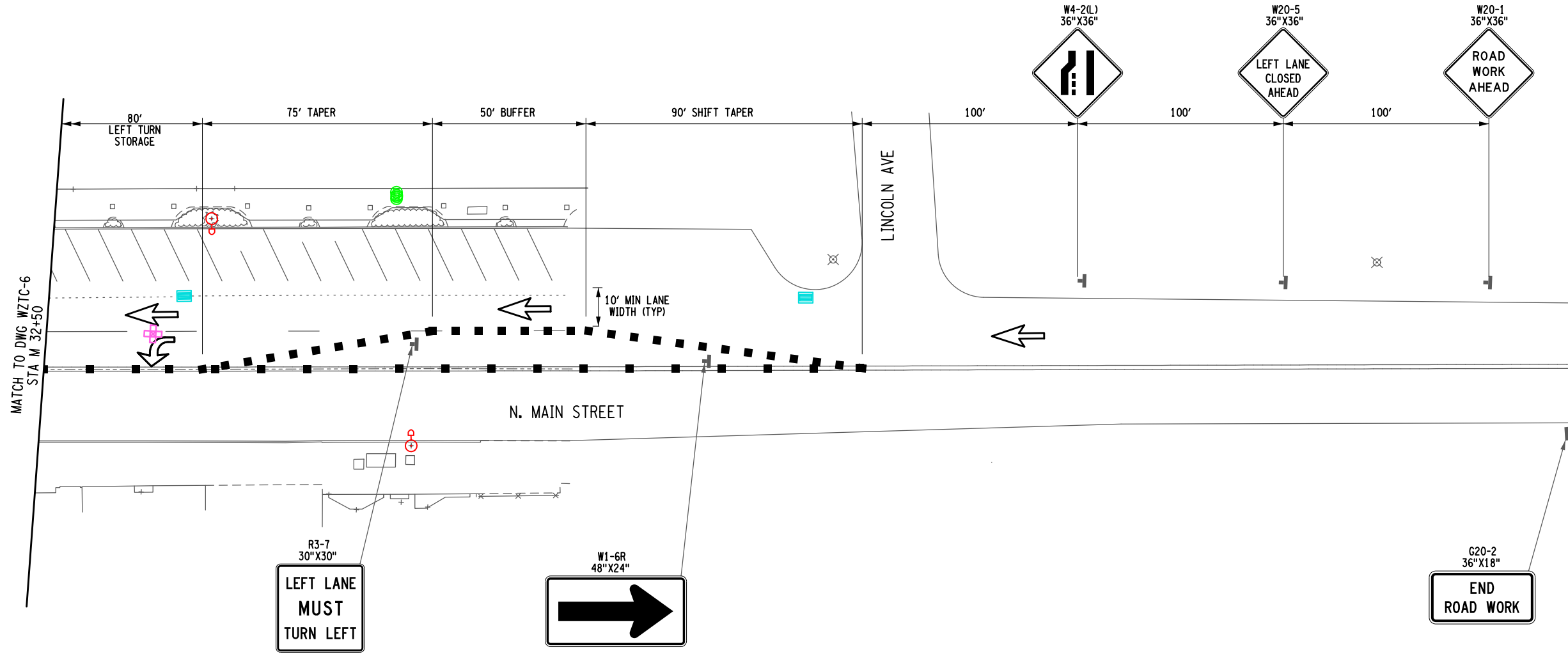
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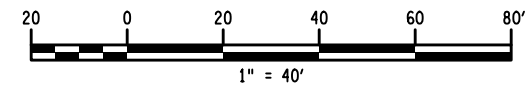
PROJECT  
MAIN STREET UTILITY  
IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK  
TITLE OF DRAWING  
WORK ZONE TRAFFIC CONTROL PLAN  
STAGE 3

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LEGEND	
	BARRICADE (TYPE III)
	DIRECTION OF TRAFFIC
	SIGN (TEMPORARY)
	CHANNELIZING DEVICE
	CHANGEABLE MESSAGE SIGN (PVMS)
	PAVEMENT MARKING REMOVAL OR COVERING
	WORK AREA

NOTE:  
1. SEE DRAWING WZTC-1 FOR TRAFFIC CONTROL NOTES AND SUGGESTED CONSTRUCTION SEQUENCE.



PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK		TITLE OF DRAWING: WORK ZONE TRAFFIC CONTROL PLAN STAGE 3	
DRAWING NO. <b>WZTC-7</b>		SHEET 13F1 OF 171	
PROJECT NO. 200395		ISSUE DATE FEB. 2022	
PROJECT MANAGER T. FAULKNER		SCALE AS SHOWN	
DRAWN BY T. DAVIS		REV. 1 WORK ZONE REVISIONS	
DEPARTMENT CIVIL ENGINEERING		DATE 10/17/22	
PROFESSIONAL ENGINEER PETER WOOD		BY	
LICENSE NO. 082814		DESCRIPTION	
STATE OF NEW YORK		REV. 2 ROAD WORK AHEAD	
PROFESSIONAL ENGINEER		REV. 3 LEFT LANE CLOSED AHEAD	
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New York State Education Law Section 1201 requires the use of this form for any person, unless authorized in writing by the State Education Department.		REV. 5 ROAD WORK AHEAD	
The drawing is the property of Fisher Associates, P.C. and is loaned to the client for the purpose of the project only. It is not to be used for any other purpose without the written consent of Fisher Associates, P.C.		REV. 6 ROAD WORK AHEAD	
The drawing is the property of Fisher Associates, P.C. and is loaned to the client for the purpose of the project only. It is not to be used for any other purpose without the written consent of Fisher Associates, P.C.		REV. 7 ROAD WORK AHEAD	

200395.sph\_WZTC-07\_stage3.F1.dgn  
 28-OCT-2022 10:46 AM  
 J. Jaymes

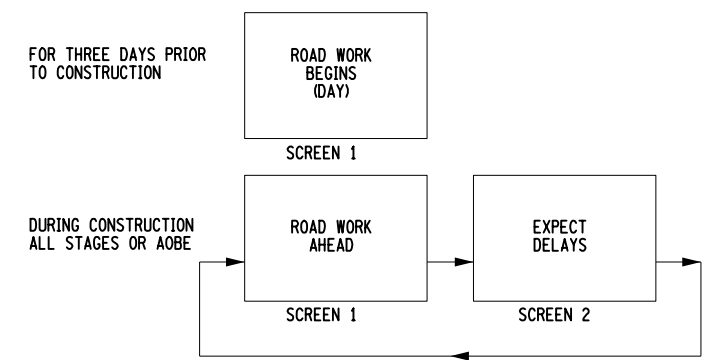
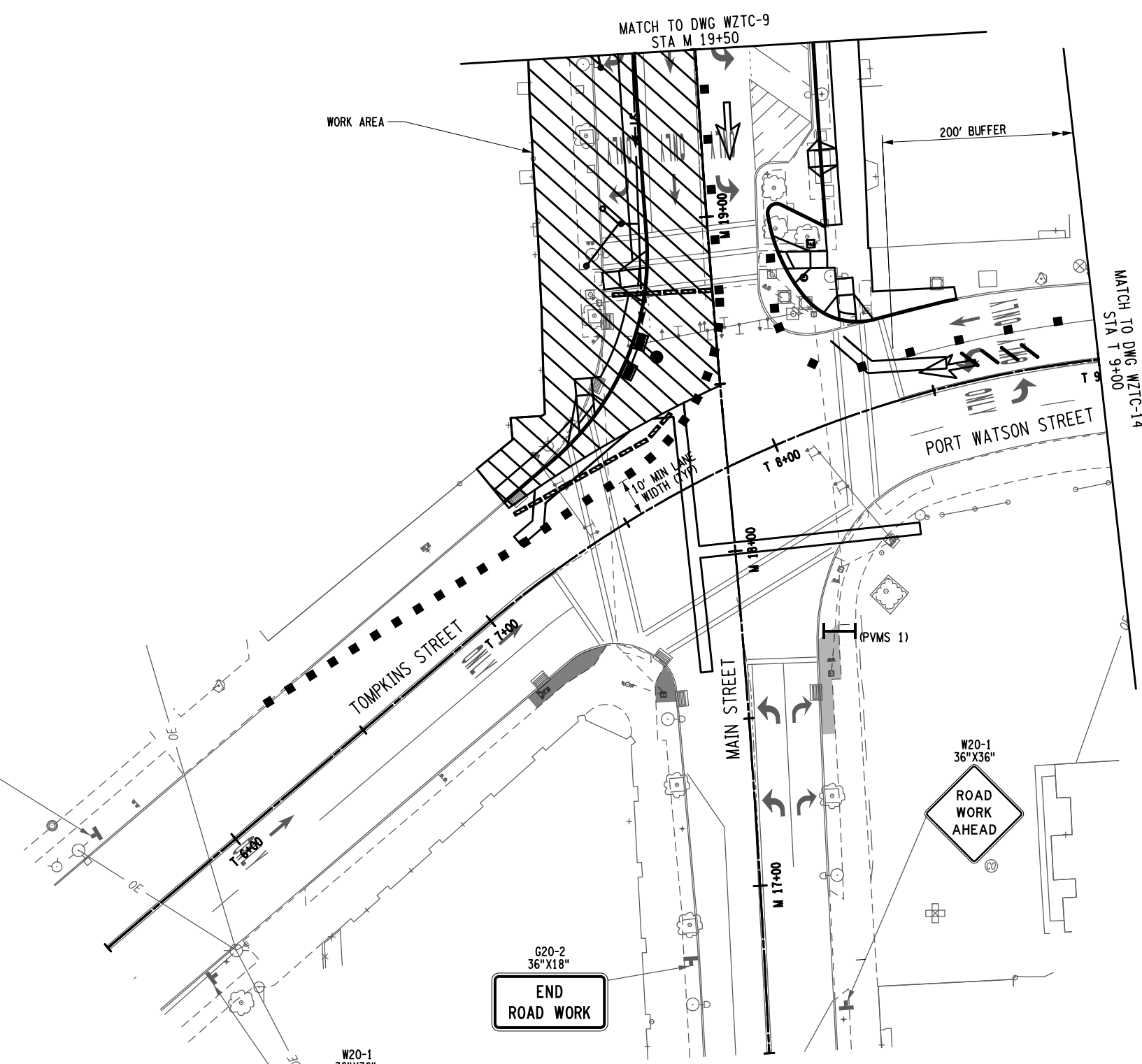
200395\_sph\_WZTC-08\_stage4.dgn  
24-MAR-2022 17:48 TIME  
T.md

G20-2  
36"X18"  
**END  
ROAD WORK**

G20-2  
36"X18"  
**END  
ROAD WORK**

W20-1  
36"X36"  
**ROAD  
WORK  
AHEAD**

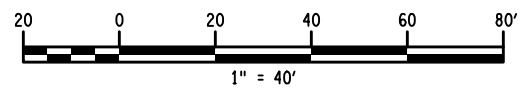
W20-1  
36"X36"  
**ROAD  
WORK  
AHEAD**



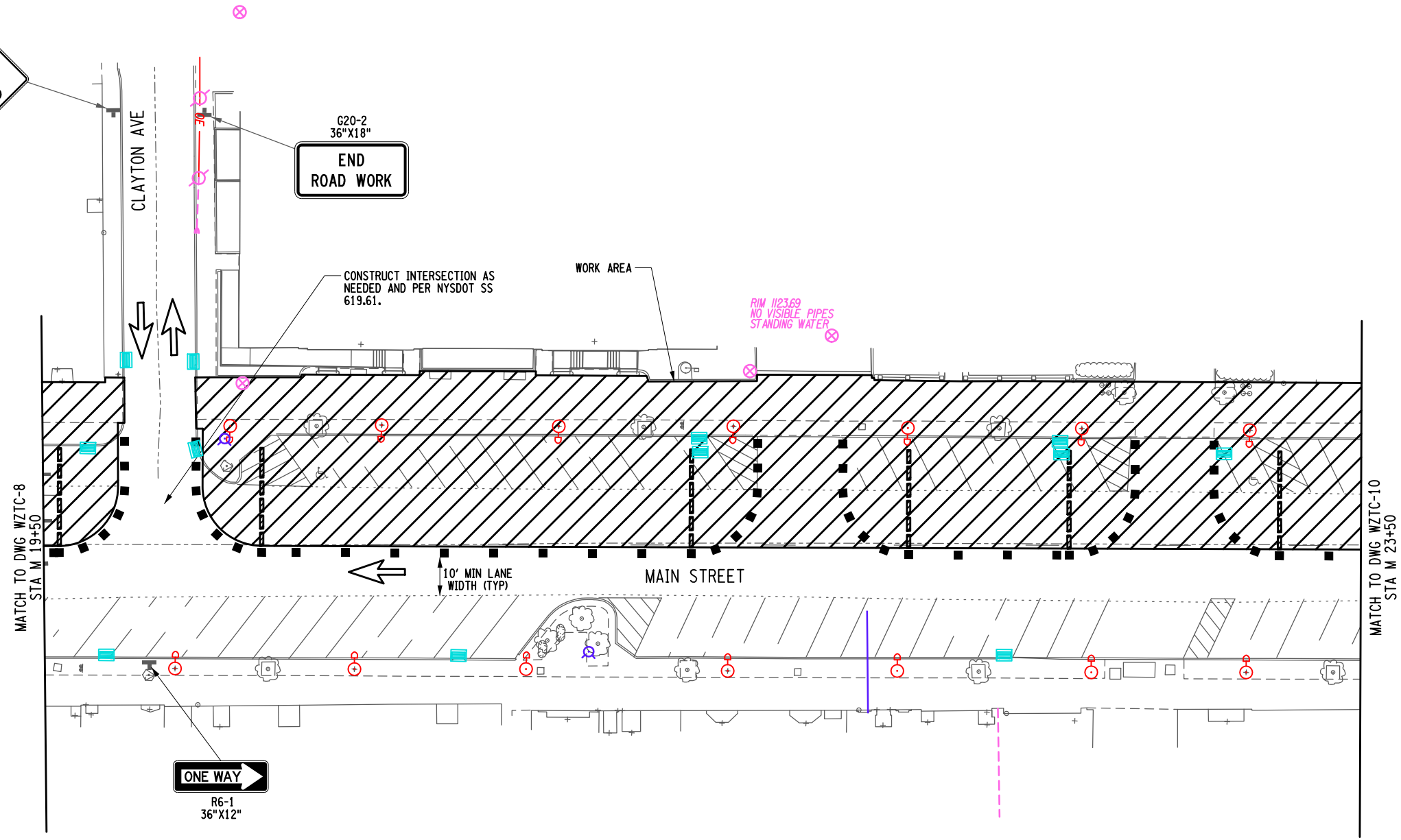
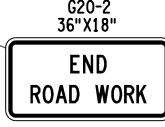
PVMS MESSAGE DETAIL  
ITEM 619.111111

LEGEND	
	BARRICADE (TYPE III)
	DIRECTION OF TRAFFIC
	SIGN (TEMPORARY)
	CHANNELIZING DEVICE
	CHANGEABLE MESSAGE SIGN (PVMS)
	PAVEMENT MARKING REMOVAL OR COVERING
	WORK AREA

- NOTES:
- SEE DRAWING WZTC-1 FOR TRAFFIC CONTROL NOTES AND SUGGESTED CONSTRUCTION SEQUENCE.
  - PVMS BOARD SHALL BE LOCATED AT THE SE CORNER OF MAIN STREET AND PORT WATSON STREET FACING NORTHBOUND TRAFFIC AOE. THE PVMS BOARD SHALL BE IN PLACE 5 DAYS BEFORE CLOSURE AND SHALL REMAIN FOR THE DURATION OF THE LANE CLOSURE.



PROJECT MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK		TITLE OF DRAWING WORK ZONE TRAFFIC CONTROL PLAN STAGE 4	
DRAWING NO. <b>WZTC-8</b>			
SHEET 14 OF 169			
PROJECT NO. 200395 PROJECT MANAGER T. FAULKNER DRAWN BY T. DAVIS SCALE AS SHOWN		ISSUE DATE FEB. 2022	
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DESCRIPTION		DATE	BY

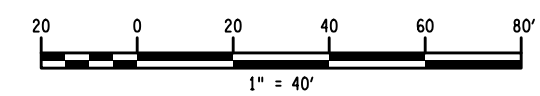


MATCH TO DWG WZTC-8  
STA M 19+50

MATCH TO DWG WZTC-10  
STA M 23+50

LEGEND	
	BARRICADE (TYPE III)
	DIRECTION OF TRAFFIC
	SIGN (TEMPORARY)
	CHANNELIZING DEVICE
	CHANGEABLE MESSAGE SIGN (PVMS)
	PAVEMENT MARKING REMOVAL OR COVERING
	WORK AREA

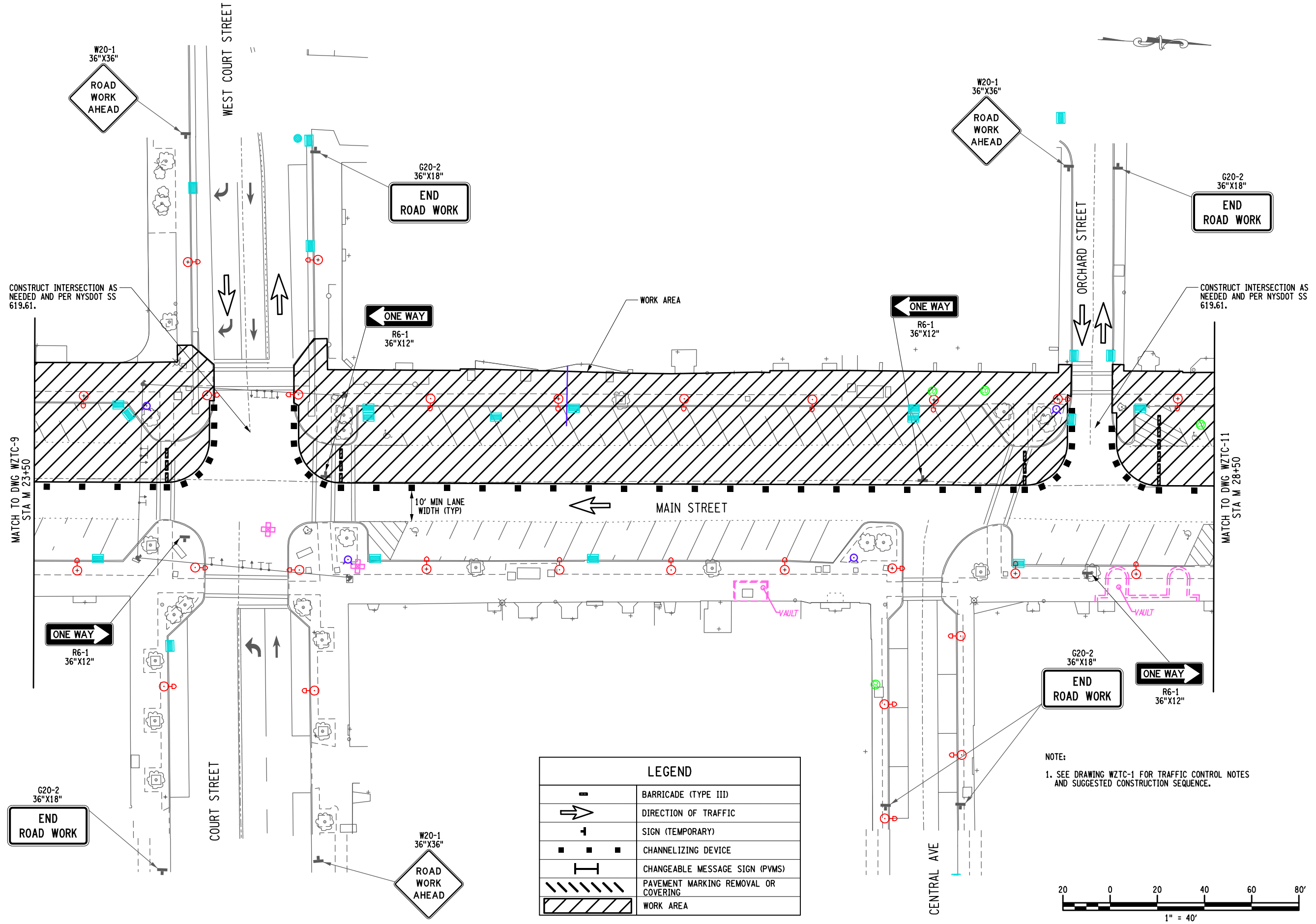
NOTE:  
1. SEE DRAWING WZTC-1 FOR TRAFFIC CONTROL NOTES AND SUGGESTED CONSTRUCTION SEQUENCE.



200395\_sph\_WZTC-09\_stage4\_F1.dgn  
28-OCT-2022 10:46 \*TIME\*  
Jaymes

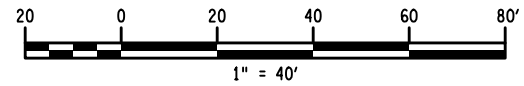
	<b>FISHER ASSOCIATES</b> WWW.FISHERASSOC.COM			PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK					
PROJECT NO. 200395		PROJECT MANAGER T. FAULKNER		DRAWN BY T. DAVIS		ISSUE DATE FEB. 2022			
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TITLE OF DRAWING WORK ZONE TRAFFIC CONTROL PLAN STAGE 4				DRAWING NO. <b>WZTC-9</b>				SHEET 15F1 OF 171	





LEGEND	
	BARRICADE (TYPE III)
	DIRECTION OF TRAFFIC
	SIGN (TEMPORARY)
	CHANNELIZING DEVICE
	CHANGEABLE MESSAGE SIGN (PVMS)
	PAVEMENT MARKING REMOVAL OR COVERING
	WORK AREA

NOTE:  
1. SEE DRAWING WZTC-1 FOR TRAFFIC CONTROL NOTES AND SUGGESTED CONSTRUCTION SEQUENCE.



REV	DESCRIPTION	DATE	BY
1	WORK ZONE REVISIONS	10/17/22	JNT
2			
3			
4			
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otherwise changing the original  
information, whether by "followed by" or  
otherwise, is a violation of the  
Education Law, and a specific description  
of the violation.

EA PROJECT NO.  
200395  
PROJECT MANAGER  
T. FAULKNER  
DRAWN BY  
T. DAVIS  
SCALE  
AS SHOWN  
ISSUE DATE  
FEB. 2022



PROJECT  
MAIN STREET UTILITY  
IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK  
TITLE OF DRAWING  
WORK ZONE TRAFFIC CONTROL PLAN  
STAGE 2

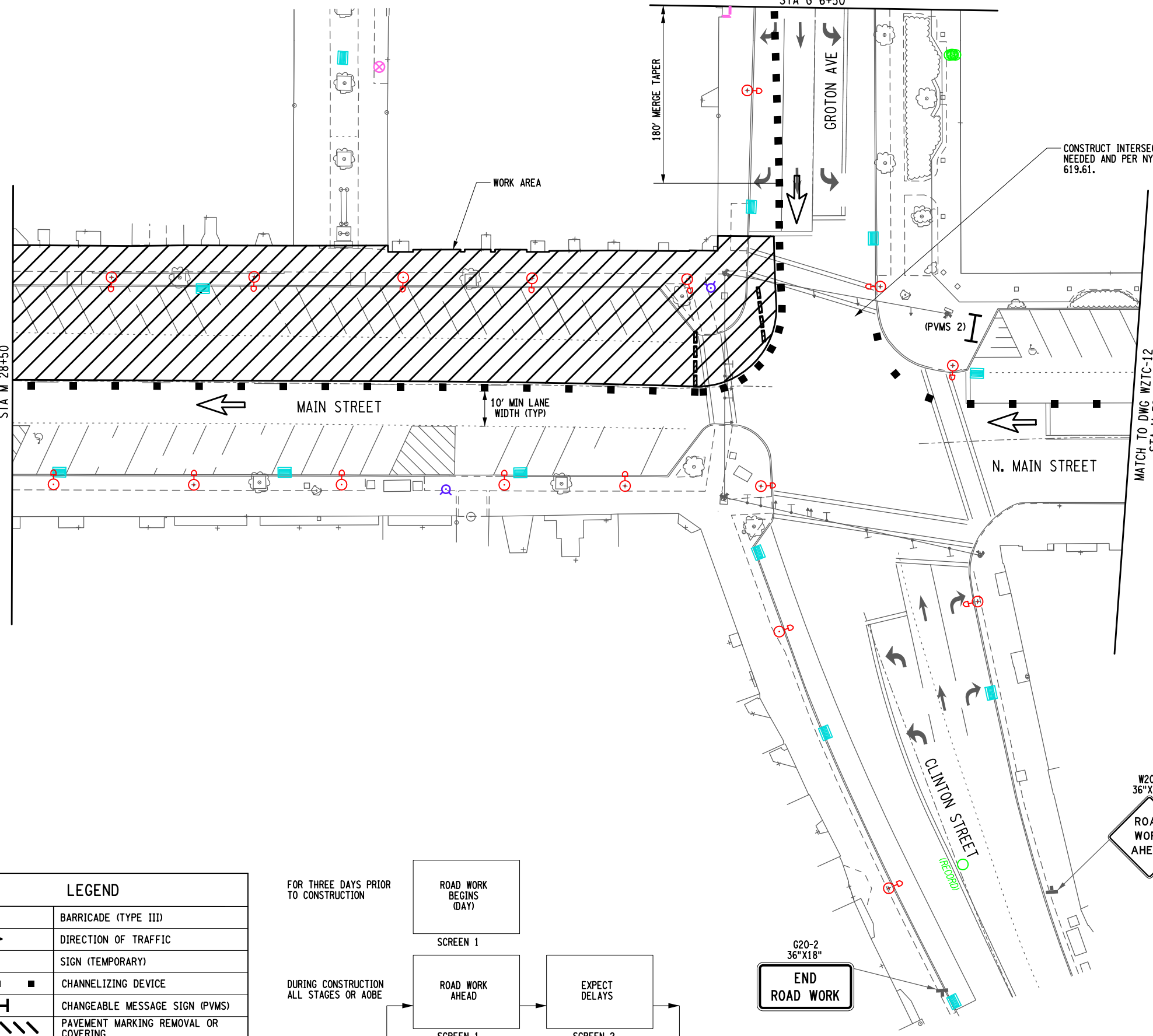
DRAWING NO.  
**WZTC-10**  
SHEET 16F1 OF 171

200395\_sph\_wztc-10\_stage4.r1.dgn  
28-OCT-2022 10:46 AM  
Jaymes

MATCH TO DWG WZTC-10  
STA M 28+50

MATCH TO DWG WZTC-13  
STA G 6+50

MATCH TO DWG WZTC-12  
STA M 32+50



CONSTRUCT INTERSECTION AS  
NEEDED AND PER NYSOT SS  
619.61.

WORK AREA

180' MERGE TAPER

GROTON AVE

MAIN STREET

10' MIN LANE  
WIDTH (TYP)

N. MAIN STREET

CLINTON STREET

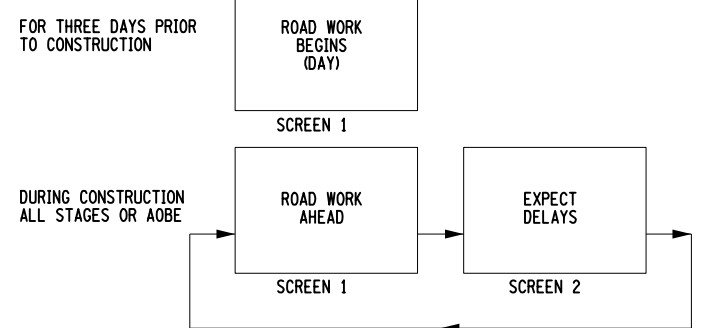
W20-1  
36"X36"

ROAD  
WORK  
AHEAD

G20-2  
36"X18"

END  
ROAD WORK

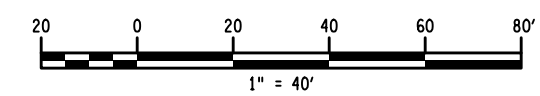
LEGEND	
	BARRICADE (TYPE III)
	DIRECTION OF TRAFFIC
	SIGN (TEMPORARY)
	CHANNELIZING DEVICE
	CHANGEABLE MESSAGE SIGN (PVMS)
	PAVEMENT MARKING REMOVAL OR COVERING
	WORK AREA



PVMS MESSAGE DETAIL  
ITEM 619.111111

NOTES:

- SEE DRAWING WZTC-1 FOR TRAFFIC CONTROL NOTES AND SUGGESTED CONSTRUCTION SEQUENCE.
- PVMS BOARD SHALL BE LOCATED AT THE SE CORNER OF MAIN STREET AND PORT WATSON STREET FACING NORTHBOUND TRAFFIC AOB. THE PVMS BOARD SHALL BE IN PLACE 5 DAYS BEFORE CLOSURE AND SHALL REMAIN FOR THE DURATION OF THE LANE CLOSURE.



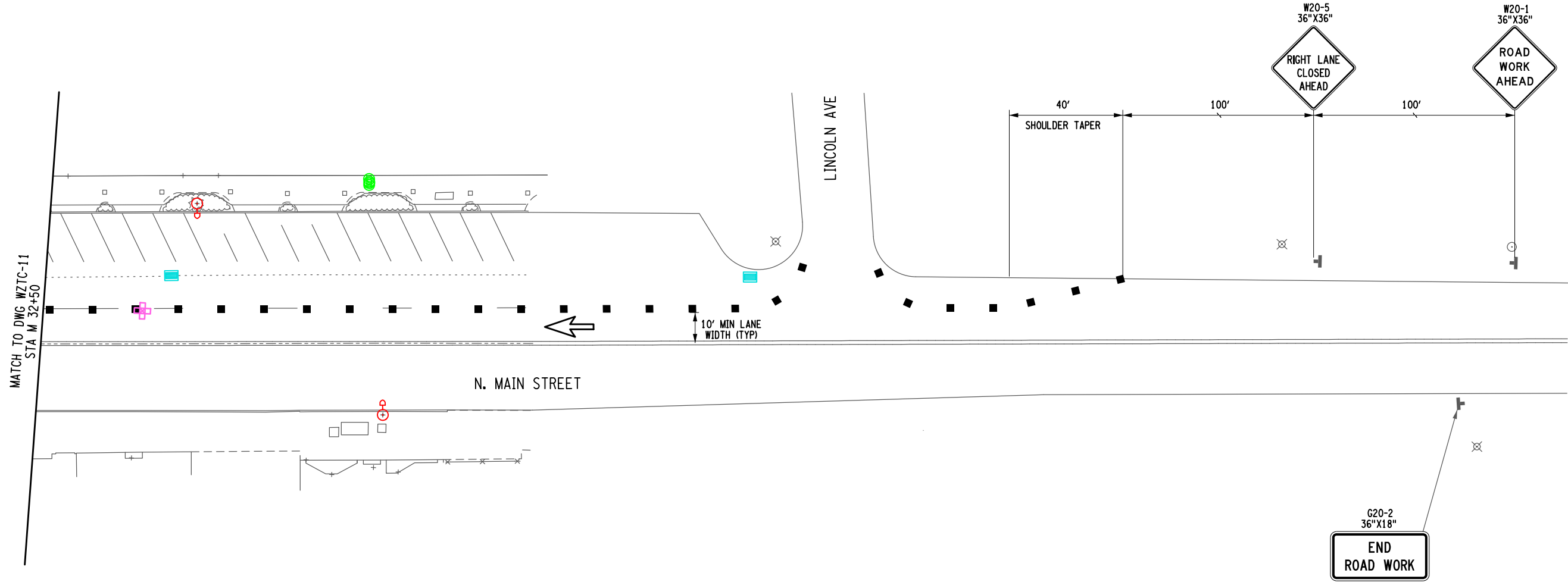
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20-OCT-2022 10:46  
Jaymes

PROJECT MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK		TITLE OF DRAWING WORK ZONE TRAFFIC CONTROL PLAN STAGE 4	
DRAWING NO. <b>WZTC-11</b>		SHEET 17F1 OF 171	
PROJECT NO. 200395		ISSUE DATE FEB. 2022	
PROJECT MANAGER T. FAULKNER		SCALE AS SHOWN	
DRAWN BY T. DAVIS		REV. DESCRIPTION 1 WORK ZONE REVISIONS 2 3 4 5 6 7	
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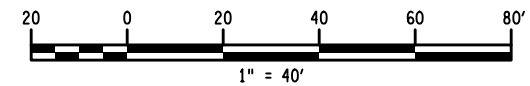
200395\_sph\_WZTC-12\_stage4\_1.dgn  
 28-OCT-2022 10:46 \*TIME\*  
 Jaymes

FIELD CHANGE SHEET  
 THIS SHEET SUPERCEDES SHEET 18



LEGEND	
	BARRICADE (TYPE III)
	DIRECTION OF TRAFFIC
	SIGN (TEMPORARY)
	CHANNELIZING DEVICE
	CHANGEABLE MESSAGE SIGN (PVMS)
	PAVEMENT MARKING REMOVAL OR COVERING
	WORK AREA

NOTE:  
 1. SEE DRAWING WZTC-1 FOR TRAFFIC CONTROL NOTES AND SUGGESTED CONSTRUCTION SEQUENCE.



REV	DESCRIPTION	DATE	BY
1	WORK ZONE REVISIONS	10/17/22	JNT
2			
3			
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5			
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7			

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 seal, the professional engineer or land  
 surveyor's name, the drawing's title,  
 the date, the drawing's number, and the  
 revision, entered by the professional  
 engineer or land surveyor, and a specific  
 description of the correction.

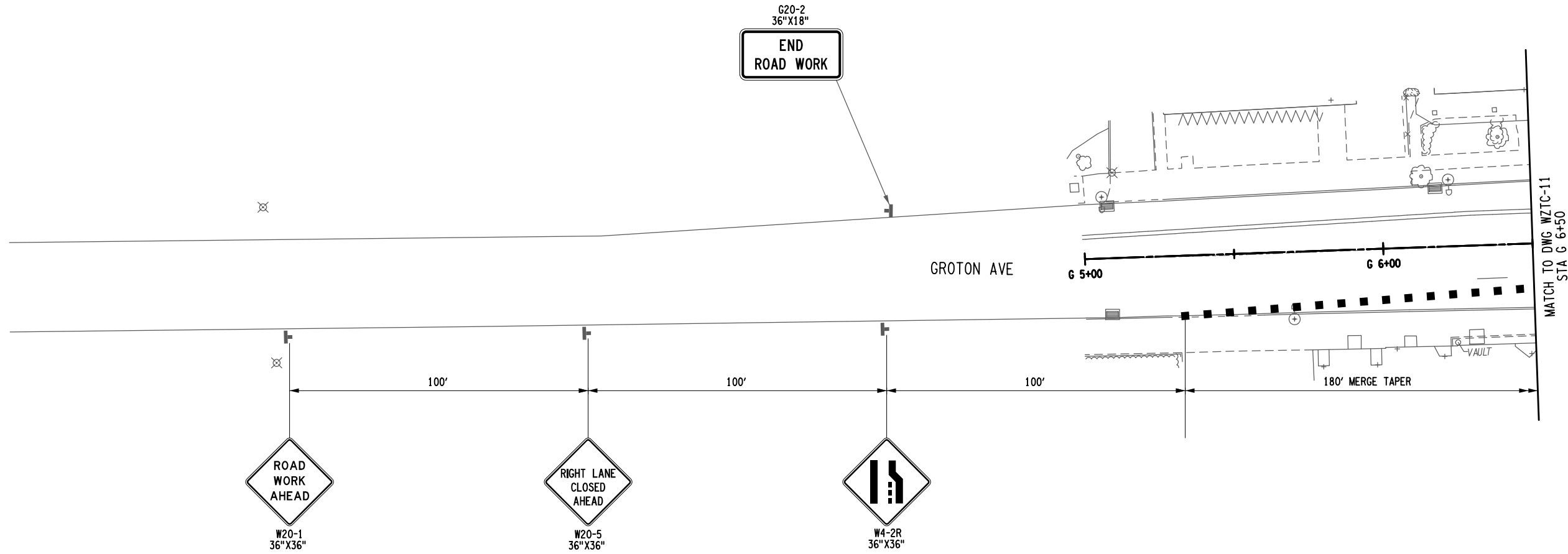
EA PROJECT NO.  
 200395  
 PROJECT MANAGER  
 T. FAULKNER  
 DRAWN BY  
 T. DAVIS  
 SCALE  
 AS SHOWN  
 ISSUE DATE  
 FEB. 2022



PROJECT  
 MAIN STREET UTILITY  
 IMPROVEMENT PROJECT  
 CITY OF CORTLAND  
 CORTLAND COUNTY, NEW YORK  
 TITLE OF DRAWING  
 WORK ZONE TRAFFIC CONTROL PLAN  
 STAGE 4

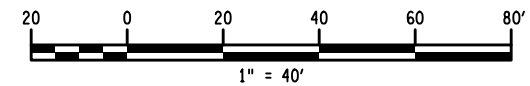
DRAWING NO.  
**WZTC-12**  
 SHEET 18F1 OF 171

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 T.mD

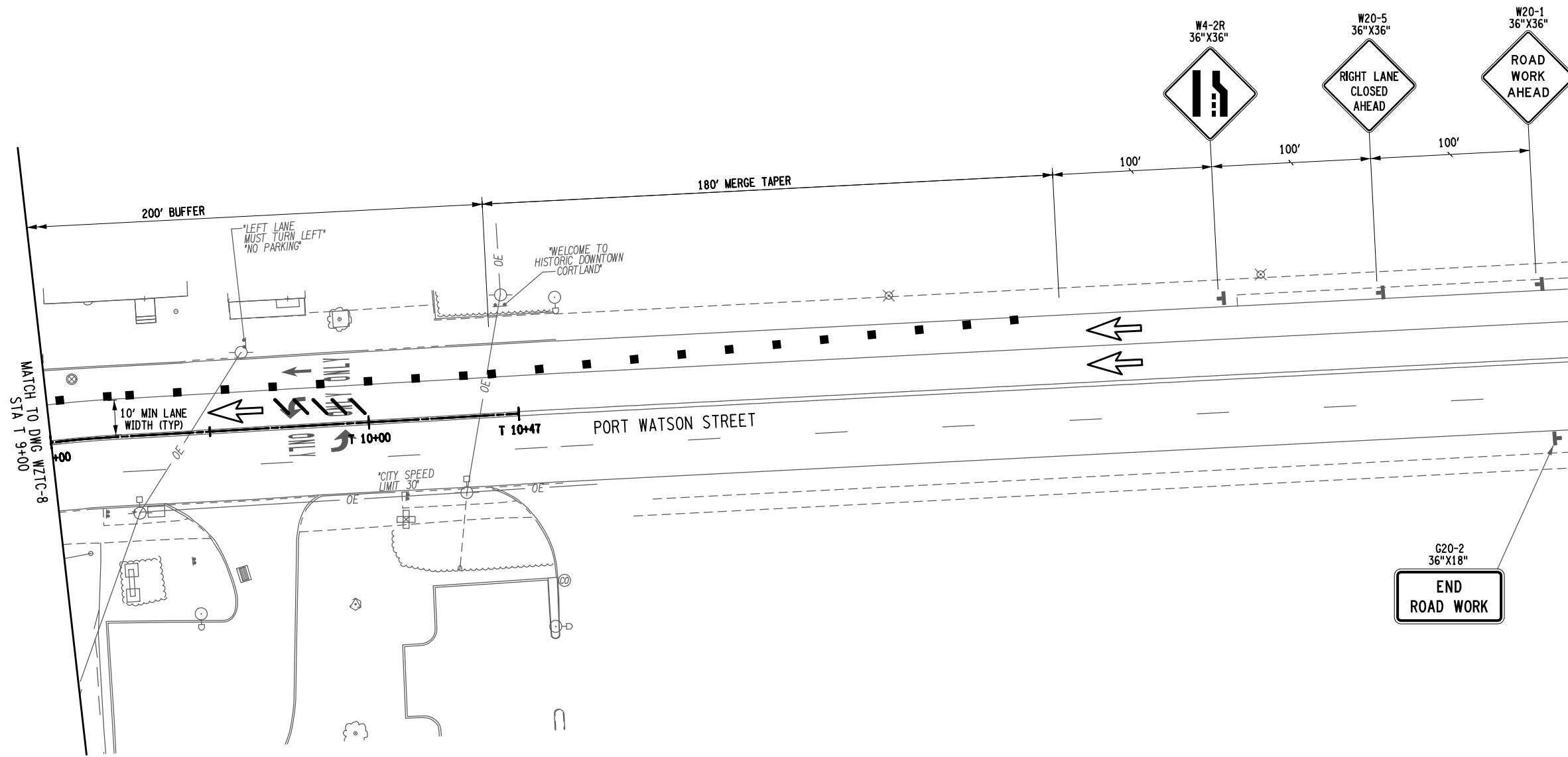


LEGEND	
	BARRICADE (TYPE III)
	DIRECTION OF TRAFFIC
	SIGN (TEMPORARY)
	CHANNELIZING DEVICE
	CHANGEABLE MESSAGE SIGN (PVMS)
	PAVEMENT MARKING REMOVAL OR COVERING
	WORK AREA

NOTE:  
 1. SEE DRAWING WZTC-1 FOR TRAFFIC CONTROL NOTES AND SUGGESTED CONSTRUCTION SEQUENCE.

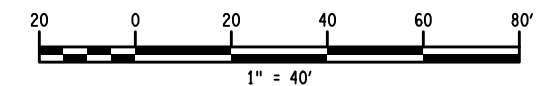


PROJECT MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK		TITLE OF DRAWING WORK ZONE TRAFFIC CONTROL PLAN STAGE 4		
DRAWING NO. <b>WZTC-13</b>		SHEET 19 OF 169		
FISHER ASSOCIATES WWW.FISHERASSOC.COM		STATE OF NEW YORK PROFESSIONAL ENGINEER PETER WOOD 082814		
FA PROJECT NO. 200395 PROJECT MANAGER T. FAULKNER DRAWN BY T. DAVIS SCALE AS SHOWN		ISSUE DATE FEB. 2022		
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7	REV	DESCRIPTION	DATE	BY
6				
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1				

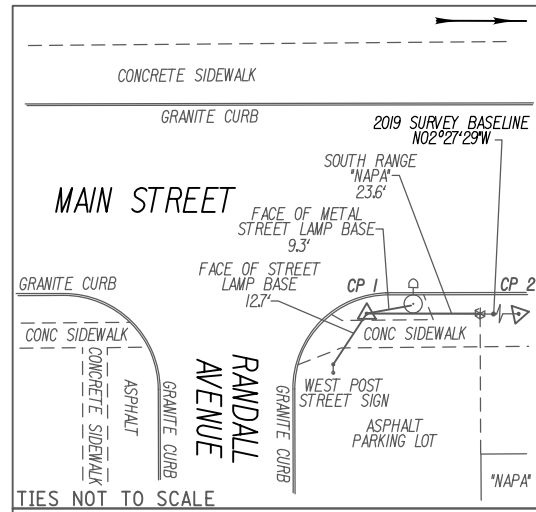


LEGEND	
	BARRICADE (TYPE III)
	DIRECTION OF TRAFFIC
	SIGN (TEMPORARY)
	CHANNELIZING DEVICE
	CHANGEABLE MESSAGE SIGN (PVMS)
	PAVEMENT MARKING REMOVAL OR COVERING
	WORK AREA

- NOTES:
- SEE DRAWING WZTC-1 FOR TRAFFIC CONTROL NOTES AND SUGGESTED CONSTRUCTION SEQUENCE.
  - PVMS BOARD SHALL BE LOCATED AT THE SE CORNER OF MAIN STREET AND PORT WATSON STREET FACING NORTHBOUND TRAFFIC AOB. THE PVMS BOARD SHALL BE IN PLACE 5 DAYS BEFORE CLOSURE AND SHALL REMAIN FOR THE DURATION OF THE LANE CLOSURE.



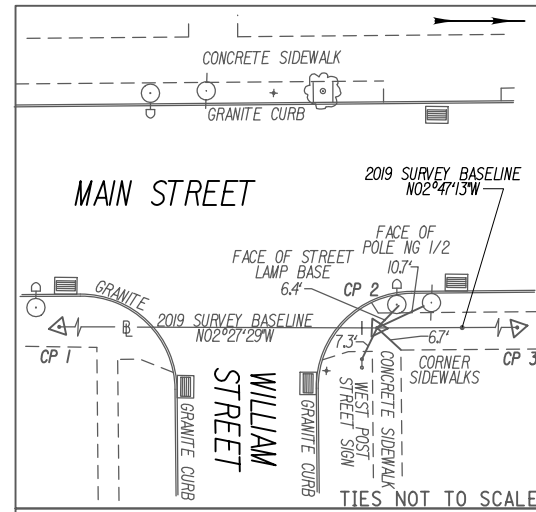
PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK		TITLE OF DRAWING: WORK ZONE TRAFFIC CONTROL PLAN STAGE 4	
PROJECT NO. 200395		ISSUE DATE FEB. 2022	
PROJECT MANAGER T. FAULKNER		SCALE AS SHOWN	
DRAWN BY T. DAVIS		DATE FEB. 2022	
PROFESSIONAL ENGINEER (Seal of Peter Rent Wood)		DESCRIPTION	
FISHER ASSOCIATES WWW.FISHERASSOC.COM		REV	
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CP 1 STA. 10+00.00

CP 1 IS A REBAR W/ PLASTIC CAP STAMPED "RAVI SURVEY" SET ON THE EASTERLY SIDE OF MAIN STREET AT THE RANDALL AVENUE MAIN STREET INTERSECTION.

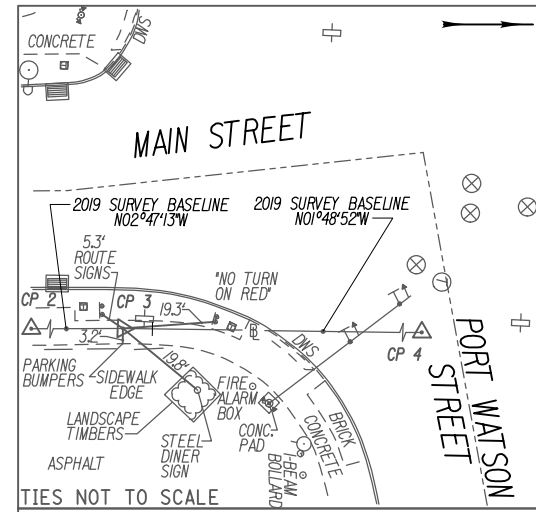
NYSPCS NAD 83(2011) CENTRAL ZONE  
NAVD 88  
NORTHING 945,690.986  
EASTING 928,809.151  
ELEV 1126.58'



CP 2 STA. 15+53.18

CP 2 IS A REBAR W/ PLASTIC CAP STAMPED "RAVI SURVEY" SET ON THE EASTERLY SIDE OF MAIN STREET AT THE WILLIAM STREET MAIN STREET INTERSECTION.

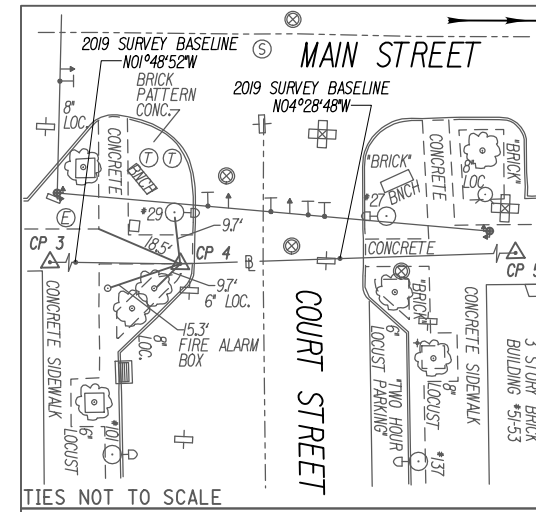
NYSPCS NAD 83(2011) CENTRAL ZONE  
NAVD 88  
NORTHING 946,243.657  
EASTING 928,785.427  
ELEV 1125.31'



CP 3 STA. 19+43.89

CP 3 IS A MAG HUB SET ON THE SOUTHEASTERLY CORNER OF THE PORT WATSON AVENUE AND MAIN STREET INTERSECTION.

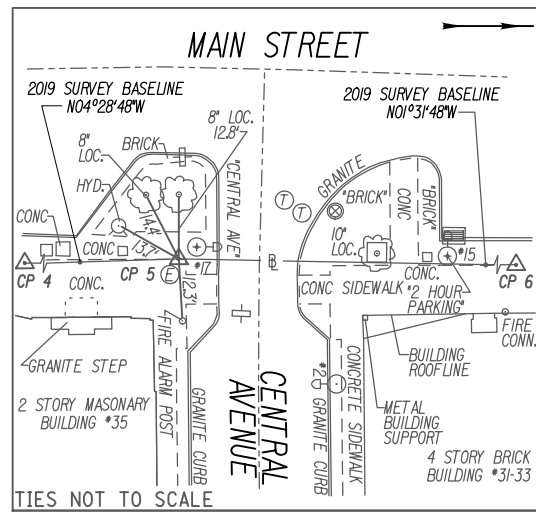
NYSPCS NAD 83(2011) CENTRAL ZONE  
NAVD 88  
NORTHING 946,633.907  
EASTING 928,766.429  
ELEV 1124.97'



CP 4 STA. 25+92.98

CP 4 IS A MAG HUB SET ON THE SOUTHEASTERLY CORNER OF THE COURT STREET AND MAIN STREET INTERSECTION.

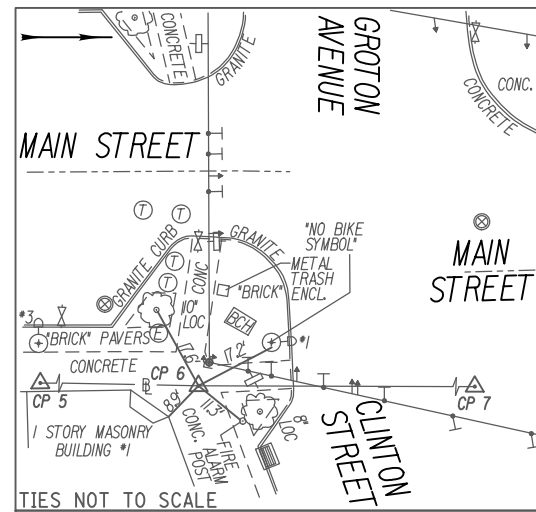
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NAVD 88  
NORTHING 947,282.672  
EASTING 928,745.877  
ELEV 1122.37'



CP 5 STA. 28+83.59

CP 5 IS A MAG HUB SET ON THE SOUTHERLY CORNER OF THE CENTRAL AVENUE AND MAIN STREET INTERSECTION.

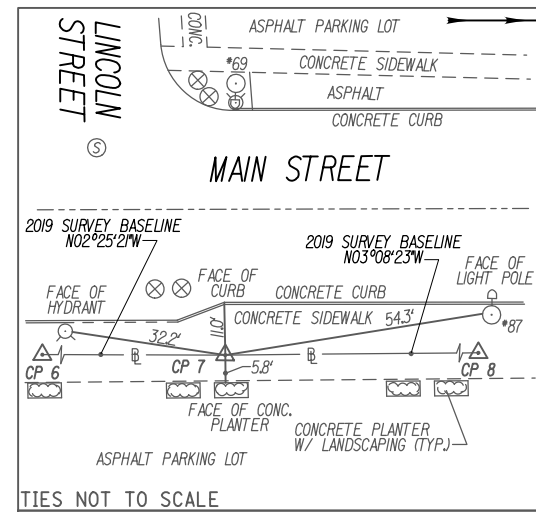
NYSPCS NAD 83(2011) CENTRAL ZONE  
NAVD 88  
NORTHING N 947,572.395  
EASTING 928,723.177  
ELEV 1122.97'



CP 6 STA. 32+75.74

CP 6 IS A MAG NAIL SET ON THE SOUTHEASTERLY CORNER OF THE CLINTON STREET AND MAIN STREET INTERSECTION.

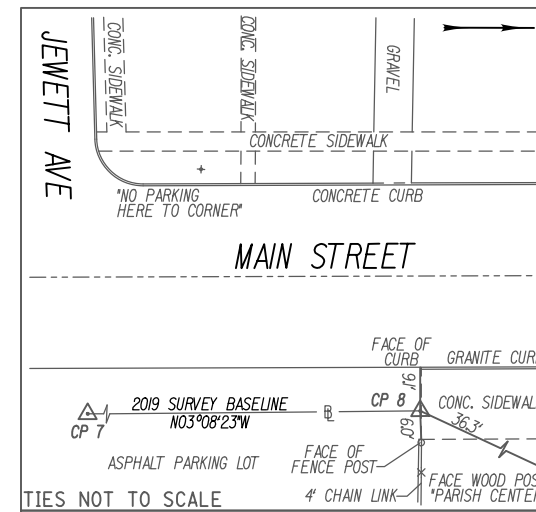
NYSPCS NAD 83(2011) CENTRAL ZONE  
NAVD 88  
NORTHING 947,964.405  
EASTING 928,712.706  
ELEV 1124.16'



CP 7 STA. 37+31.68

CP 7 IS A MAG HUB SET ON THE EASTERLY SIDE OF MAIN STREET ADJACENT TO LINCOLN STREET.

NYSPCS NAD 83(2011) CENTRAL ZONE  
NAVD 88  
NORTHING 948,419.935  
EASTING 928,693.435  
ELEV 1123.09'



CP 8 STA. 44+51.45

CP 8 IS A MAG HUB SET ON THE EASTERLY SIDE OF MAIN STREET APPROX. 79 FEET NORTHERLY OF THE JEWETT AVENUE AND MAIN STREET INTERSECTION.

NYSPCS NAD 83(2011) CENTRAL ZONE  
NAVD 88  
NORTHING 949,138.624  
EASTING 928,654.011  
ELEV 1121.28'

20035500\_mop\_sur\_blt.dgn  
24-MAR-2022 17:48 TMD

REV	DESCRIPTION	DATE	BY
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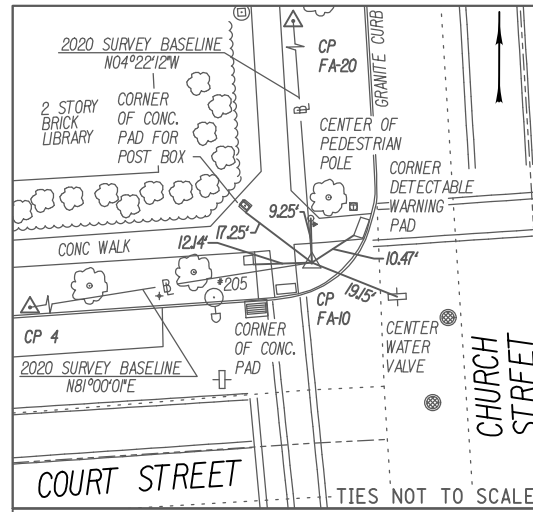
EA PROJECT NO. 200395  
PROJECT MANAGER T. FAULKNER  
DRAWN BY T. DAVIS  
SCALE AS SHOWN  
ISSUE DATE FEB. 2022



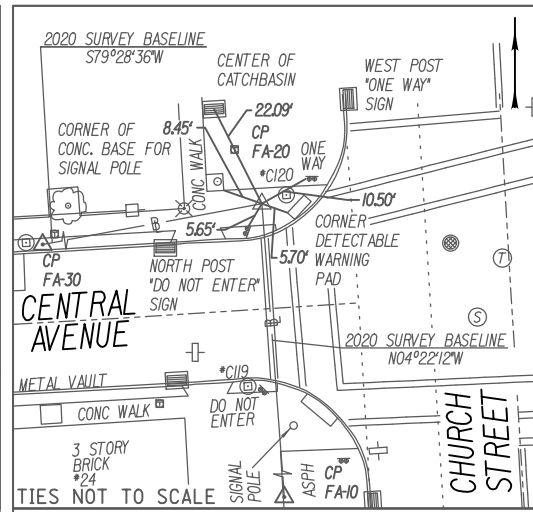
PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK

TITLE OF DRAWING: SURVEY CONTROL TIE SHEETS AND BENCHMARK TABLE

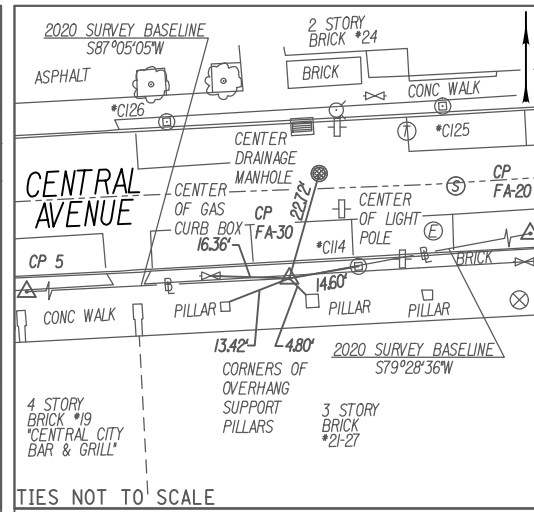
DRAWING NO. **BLT-1**  
SHEET 21 OF 169



CP FA-10 STA. FA55+83.76  
 CP FA-10 IS A MAG NAIL SET IN THE BRICK SIDEWALK ON THE NORTHWESTERLY CORNER OF THE INTERSECTION OF COURT STREET WITH CHURCH STREET, IN FRONT OF "CORTLAND FREE LIBRARY".  
 NYSPCS NAD 83(2011) CENTRAL ZONE NAVD 88  
 NORTHING 947,373.990  
 EASTING 929,322.450  
 ELEV 1119.34'



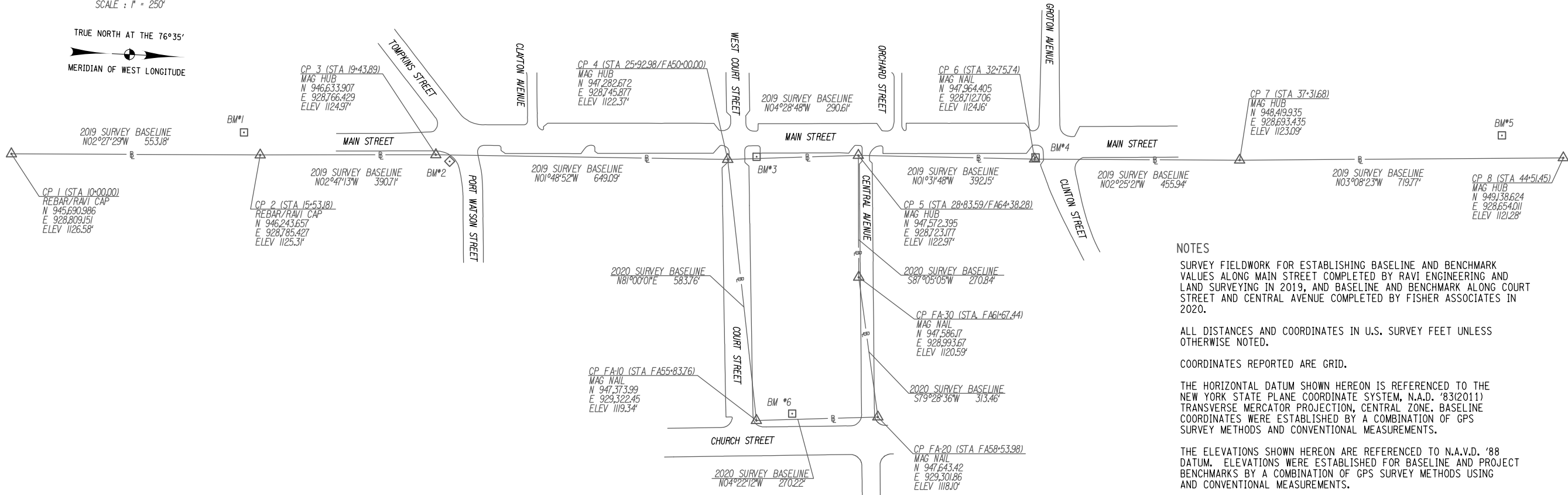
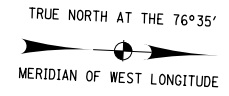
CP FA-20 STA. FA58+53.98  
 CP FA-20 IS A MAG NAIL SET IN THE CONC. SIDEWALK ON THE NORTHWESTERLY CORNER OF THE INTERSECTION OF CENTRAL AVENUE WITH CHURCH STREET.  
 NYSPCS NAD 83(2011) CENTRAL ZONE NAVD 88  
 NORTHING 947,643.420  
 EASTING 929,301.860  
 ELEV 1118.10'



CP FA-30 STA. FA61+67.44  
 CP FA-30 IS A MAG NAIL SET IN THE CONC. SIDEWALK ON THE SOUTHERLY SIDE OF CENTRAL AVENUE, LOCATED APPROXIMATELY 330' WEST OF THE INTERSECTION OF CENTRAL AVENUE WITH CHURCH STREET.  
 NYSPCS NAD 83(2011) CENTRAL ZONE NAVD 88  
 NORTHING 947,586.170  
 EASTING 928,993.670  
 ELEV 1120.59'

BENCHMARK TABLE		
NAME	DESCRIPTION	NAVD 88 ELEVATION
BM # 1	BENCHMARK 1 IS A LAG BOLT SET ON THE EASTERLY FACE OF UTILITY POLE NG-1 VZ-1 LOCATED ON THE WEST SIDE OF MAIN STREET APPROX. 475' SOUTH OF THE TOMPKINS STREET MAIN STREET INTERSECTION.	1126.84'
BM # 2	BENCHMARK 2 IS A CHISELED CROSS ON THE WESTERLY CORNER OF METAL SIGNAL POLE PLATE LOCATED ON THE SE CORNER OF THE MAIN STREET PORT WATSON STREET INTERSECTION.	1125.55'
BM # 3	BENCHMARK 3 IS A CHISELED "X" ON THE EASTERLY SIDE OF SIGNAL POLE BASE PLATE LOCATED ON THE NE CORNER OF THE COURT STREET MAIN STREET INTERSECTION.	1122.72'
BM # 4	BENCHMARK 4 IS A CHISELED "X" ON THE EASTERLY SIDE OF SIGNAL POLE BASE PLATE LOCATED ON THE SE CORNER OF THE CLINTON AVENUE MAIN STREET INTERSECTION.	1124.34'
BM # 5	BENCHMARK 5 IS A LAG BOLT SET ON THE EASTERLY FACE OF UTILITY POLE NG-21 LOCATED ON THE WEST SIDE OF MAIN STREET APPROX. 50' SOUTH OF THE JEWETT AVENUE MAIN STREET INTERSECTION.	1122.69'
BM # 6	BENCHMARK 6 IS A CHISELED SQUARE ON THE NORTHEAST CORNER OF THE BOTTOM GRANITE STEP FOR "CORTLAND FREE LIBRARY" LOCATED ON THE WESTERLY SIDE OF CHURCH STREET APPROXIMATELY 90' NORTH OF THE INTERSECTION OF COURT STREET WITH CHURCH STREET.	1120.61'

PLAN VIEW  
 SCALE : 1" = 250'



**NOTES**  
 SURVEY FIELDWORK FOR ESTABLISHING BASELINE AND BENCHMARK VALUES ALONG MAIN STREET COMPLETED BY RAVI ENGINEERING AND LAND SURVEYING IN 2019, AND BASELINE AND BENCHMARK ALONG COURT STREET AND CENTRAL AVENUE COMPLETED BY FISHER ASSOCIATES IN 2020.  
 ALL DISTANCES AND COORDINATES IN U.S. SURVEY FEET UNLESS OTHERWISE NOTED.  
 COORDINATES REPORTED ARE GRID.  
 THE HORIZONTAL DATUM SHOWN HEREON IS REFERENCED TO THE NEW YORK STATE PLANE COORDINATE SYSTEM, N.A.D. '83(2011) TRANSVERSE MERCATOR PROJECTION, CENTRAL ZONE. BASELINE COORDINATES WERE ESTABLISHED BY A COMBINATION OF GPS SURVEY METHODS AND CONVENTIONAL MEASUREMENTS.  
 THE ELEVATIONS SHOWN HEREON ARE REFERENCED TO N.A.V.D. '88 DATUM. ELEVATIONS WERE ESTABLISHED FOR BASELINE AND PROJECT BENCHMARKS BY A COMBINATION OF GPS SURVEY METHODS USING AND CONVENTIONAL MEASUREMENTS.  
 PROJECT COMBINED SCALE FACTOR: 0.99990240  
 COMBINED SCALE FACTOR DERIVED USING NGS NCAT ONLINE CONVERSION SOFTWARE ON GEOGRAPHICALLY CENTRIC CONTROL POINT #5.

20035600\_mop\_sur\_b12.dgn  
 24-MAR-2022 17:48 TIME  
 T.M.D

PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND COUNTY, NEW YORK

TITLE OF DRAWING: SURVEY CONTROL TIE SHEETS AND BENCHMARK TABLE

DRAWING NO: **BLT-2**

SHEET 22 OF 169

DATE: \_\_\_\_\_

BY: \_\_\_\_\_

REV: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

ISSUE DATE: FEB. 2022

AS SHOWN

SCALE: \_\_\_\_\_

DEANBY: J. NAVAGH

PROJECT MANAGER: T. FAULKNER

EA PROJECT NO: 200395

FISHER ASSOCIATES, P.C., L.L.C., D.P.C.

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STATE OF NEW YORK  
 SEAL OF PETER RENT WOOD  
 082814  
 PROFESSIONAL ENGINEER

ALIGNMENT NAME: MAIN STREET

ELEMENT	STATION	NORTHING	EASTING
LINEAR			
POB	15+38.38	946400.7716	928749.3313
EQNBK	15+38.38	946400.7745	928749.3311
EQNAHD	M 15+38.38	946400.7745	928749.3311
PC	M 16+60.95	946523.1902	928743.1940
TANGENT DIRECTION:	N 2°52'12" W		
TANGENT LENGTH:	122.57		

ELEMENT	STATION	NORTHING	EASTING
CIRCULAR			
PC	M 16+60.95	946523.1902	928743.1940
PI	M 17+43.26	946605.3988	928739.0726
CC		946336.4279	925017.8726
PRC	M 18+25.55	946687.3456	928731.3288
RADIUS:	3730.00		
DELTA:	2°31'42" LEFT		
DEGREE OF CURVATURE(ARC):	1°32'10"		
LENGTH:	164.60		
TANGENT:	82.31		
CHORD:	164.58		

ELEMENT	STATION	NORTHING	EASTING
CIRCULAR			
PRC	M 18+25.55	946687.3456	928731.3288
PI	M 19+12.79	946774.2013	928723.1210
CC		947038.2633	932444.7849
PT	M 20+00.00	946861.3458	928718.9830
RADIUS:	3730.00		
DELTA:	2°40'47" RIGHT		
DEGREE OF CURVATURE(ARC):	1°32'10"		
LENGTH:	174.45		
TANGENT:	87.24		
CHORD:	174.44		

ELEMENT	STATION	NORTHING	EASTING
LINEAR			
PT	M 20+00.00	946861.3458	928718.9830
PC	M 29+88.63	947848.8613	928672.0914
TANGENT DIRECTION:	N 2°43'07" W		
TANGENT LENGTH:	988.63		

ELEMENT	STATION	NORTHING	EASTING
CIRCULAR			
PC	M 29+88.63	947848.8613	928672.0914
PI	M 31+18.36	947978.4519	928665.9379
CC		948025.7787	932397.8934
PRC	M 32+48.00	948108.1569	928668.8032
RADIUS:	3730.00		
DELTA:	3°59'03" RIGHT		
DEGREE OF CURVATURE(ARC):	1°32'10"		
LENGTH:	259.37		
TANGENT:	129.74		
CHORD:	259.32		

ELEMENT	STATION	NORTHING	EASTING
CIRCULAR			
PRC	M 32+48.00	948108.1569	928668.8032
PI	M 33+85.94	948246.0668	928671.8497
CC		948190.5350	924939.7129
PT	M 35+23.76	948383.8250	928664.7014
RADIUS:	3730.00		
DELTA:	4°14'09" LEFT		
DEGREE OF CURVATURE(ARC):	1°32'10"		
LENGTH:	275.76		
TANGENT:	137.94		
CHORD:	275.70		

ALIGNMENT NAME: CLAYTONAV

ELEMENT	STATION	NORTHING	EASTING
LINEAR			
POB	C 1+00.00	946838.7065	928573.8602
EQNBK	1+00.00	946838.7065	928573.8602
EQNAHD	C 1+00.00	946838.7065	928573.8602
POE	C 2+46.07	946846.9665	928719.6936
TANGENT DIRECTION:	N 86°45'30" E		
TANGENT LENGTH:	146.07		

ALIGNMENT NAME: GROTON AVENUE

ELEMENT	STATION	NORTHING	EASTING
LINEAR			
POB	G 5+00.00	947984.7592	928381.4193
EQNBK	5+00.00	947984.7592	928381.4193
EQNAHD	G 5+00.00	947984.7592	928381.4193
PC	G 7+12.88	947992.2517	928594.1722
TANGENT DIRECTION:	N 87°58'59" E		
TANGENT LENGTH:	212.88		

ELEMENT	STATION	NORTHING	EASTING
CIRCULAR			
PC	G 7+12.88	947992.2517	928594.1722
PI	G 8+51.19	947997.1193	928732.3919
CC		948571.8923	928573.7592
PT	G 9+84.42	948063.8356	928853.5419
RADIUS:	580.00		
DELTA:	26°49'27" LEFT		
DEGREE OF CURVATURE(ARC):	9°52'43"		
LENGTH:	271.54		
TANGENT:	138.31		
CHORD:	269.07		

ELEMENT	STATION	NORTHING	EASTING
LINEAR			
PT	G 9+84.42	948063.8356	928853.5419
POE	G 10+63.37	948101.9167	928922.6932
TANGENT DIRECTION:	N 61°09'32" E		
TANGENT LENGTH:	78.94		

ALIGNMENT NAME: ORCHARD STREET

ELEMENT	STATION	NORTHING	EASTING
LINEAR			
POB	OS 5+00.00	947651.7635	928536.4111
EQNBK	5+00.00	947651.7635	928536.4111
EQNAHD	OS 5+00.00	947651.7635	928536.4111
POE	OS 6+44.88	947658.7486	928681.1188
TANGENT DIRECTION:	N 87°14'11" E		
TANGENT LENGTH:	144.88		

ALIGNMENT NAME: TOMPKINS STREET

ELEMENT	STATION	NORTHING	EASTING
LINEAR			
POB	T 5+00.00	946511.2188	928508.6897
EQNBK	5+00.00	946511.2188	928508.6897
EQNAHD	T 5+00.00	946511.2188	928508.6897
PC	T 6+98.11	946639.8217	928659.3819
TANGENT DIRECTION:	N 49°31'20" E		
TANGENT LENGTH:	198.11		

ELEMENT	STATION	NORTHING	EASTING
CIRCULAR			
PC	T 6+98.11	946639.8217	928659.3819
PI	T 8+12.39	946714.0115	928746.3149
CC		946381.1986	928880.0946
PT	T 9+18.61	946720.6283	928860.4099
RADIUS:	340.00		
DELTA:	37°09'32" RIGHT		
DEGREE OF CURVATURE(ARC):	16°51'06"		
LENGTH:	220.51		
TANGENT:	114.29		
CHORD:	216.66		

ELEMENT	STATION	NORTHING	EASTING
LINEAR			
PT	T 9+18.61	946720.6283	928860.4099
POE	T 10+47.23	946728.0744	928988.8066
TANGENT DIRECTION:	N 86°40'51" E		
TANGENT LENGTH:	128.61		

REV	DESCRIPTION	DATE	BY
7			
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The notation "checked by" followed by  
signature and date is required for  
alteration, and a specific description  
of the correction.

EA PROJECT NO.  
200395  
PROJECT MANAGER  
T. FAULKNER  
DRAWN BY  
C. CLARK  
SCALE  
AS SHOWN  
ISSUE DATE  
FEB. 2022



PROJECT  
MAIN STREET UTILITY  
IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK  
TITLE OF DRAWING  
SURVEY CONTROL - HORIZONTAL ALIGNMENT



ALIGNMENT NAME: CENTRALAV

ELEMENT: LINEAR	STATION	NORTHING	EASTING
POB	CA 1+00.00	947587.1497	928684.5186
EQNBK	1+00.00	947587.1497	928684.5186
EQNAHD	CA 1+00.00	947587.1497	928684.5186
PI	CA 2+46.48	947594.2078	928830.8249
TANGENT DIRECTION:	N 87° 14' 17" E		
TANGENT LENGTH:	146.48		
ELEMENT: LINEAR			
PI	CA 2+46.48	947594.2078	928830.8249
POE	CA 11+91.80	947655.2594	929774.1720
TANGENT DIRECTION:	N 86° 17' 50" E		
TANGENT LENGTH:	945.32		

ALIGNMENT NAME: COURTST

ELEMENT: LINEAR	STATION	NORTHING	EASTING
POB	8+50.00	947281.4796	928402.5322
PI	CS 10+00.00	947291.2123	928552.2161
TANGENT DIRECTION:	N 86° 16' 47" E		
TANGENT LENGTH:	150.00		
ELEMENT: LINEAR			
PI	CS 10+00.00	947291.2123	928552.2161
EQNBK	10+00.00	947291.2123	928552.2161
EQNAHD	CS 10+00.00	947291.2123	928552.2161
PI	CS 12+97.20	947306.3630	928849.0276
TANGENT DIRECTION:	N 87° 04' 40" E		
TANGENT LENGTH:	297.20		
ELEMENT: LINEAR			
PI	CS 12+97.20	947306.3630	928849.0276
POE	CS 18+20.51	947339.2995	929371.3026
TANGENT DIRECTION:	N 86° 23' 29" E		
TANGENT LENGTH:	523.31		

ALIGNMENT NAME: CHURCH

ELEMENT: LINEAR	STATION	NORTHING	EASTING
POB	CH 3+00.00	947162.7817	929382.0944
EQNBK	3+00.00	947162.7817	929382.0944
EQNAHD	CH 3+00.00	947162.7817	929382.0944
POE	CH 8+23.79	947685.5995	929350.1308
TANGENT DIRECTION:	N 3° 29' 55" W		
TANGENT LENGTH:	523.79		

REV	DESCRIPTION	DATE	BY
7			
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 name of the drafter, are required on all  
 drawings, and a specific description  
 of the contract.

EA PROJECT NO.  
 200395  
 PROJECT MANAGER  
 T. FAULKNER  
 DRAWN BY  
 C. CLARK  
 SCALE  
 AS SHOWN  
 ISSUE DATE  
 FEB. 2022



PROJECT  
 MAIN STREET UTILITY  
 IMPROVEMENT PROJECT  
 CITY OF CORTLAND  
 CORTLAND COUNTY, NEW YORK  
 TITLE OF DRAWING  
 SURVEY CONTROL - HORIZONTAL ALIGNMENT

DRAWING NO.  
**SC-2**



200395\_sph\_mst\_MT-01\_F.ljdg  
28-MAR-2023 12:46  
Jaymes

SIDEWALK TABLE									
ITEM 608.0101 - CONCRETE SIDEWALK									
ITEM 304.15 - SUBBASE COURSE, OPTIONAL									
BEGIN STATION	SIDE	END STATION	SIDE	AREA OF SIDEWALK (SF)	WIDTH OF SIDEWALK (FT)	THICKNESS OF SIDEWALK (FT)	THICKNESS OF SUBBASE (FT)	ITEM 608.0101 (CY)	ITEM 304.15 (CY)
M 17+51	LT	T 7+11	RT	379.1	18.9	0.42	0.67	5.85	9.41
M 17+56	LT	M 17+67	LT	49.4	6.1	0.42	0.67	0.76	1.23
T 6+43	RT	T 7+23	RT	110.7	4.0	0.42	0.67	1.71	2.75
T 7+24	LT	M 18+39	LT	153.2	7.9	0.42	0.67	2.36	3.80
M 18+39	LT	M 18+45	LT	153.7	16.7	0.42	0.67	2.37	3.81
M 18+45	LT	M 19+69	LT	1895.4	13.8	0.42	0.67	26.16	42.07
M 18+76	LT	M 18+91	LT	135.5	24.6	0.42	0.67	2.09	3.36
M 19+69	LT	M 19+75	LT	139.3	25.6	0.42	0.67	2.15	3.46
M 19+96	LT	M 20+02	LT	138.6	26.5	0.42	0.67	2.14	3.44
M 20+02	LT	M 20+28	LT	286.3	11.2	0.42	0.67	4.42	7.10
M 20+28	LT	M 20+64	LT	434.2	12.0	0.42	0.67	6.70	10.77
M 20+64	LT	M 20+99	LT	467.1	13.2	0.42	0.67	7.21	11.59
M 20+99	LT	M 21+33	LT	555.5	12.0	0.42	0.67	8.57	13.78
M 21+33	LT	M 21+66	LT	344.7	10.4	0.42	0.67	5.32	8.55
M 21+66	LT	M 22+02	LT	444.1	12.5	0.50	0.67	8.22	11.02
M 22+02	LT	M 24+10	LT	2368.8	10.7	0.42	0.67	36.56	58.78
M 23+57	LT	M 23+69	LT	44.6	5.0	0.42	0.67	0.69	1.11
M 24+10	LT	M 24+26	LT	246.2	18.1	0.42	0.67	3.80	6.11
M 24+60	LT	M 24+80	LT	459.5	43.1	0.42	0.67	7.09	11.40
M 24+75	LT	M 25+30	LT	439.0	7.9	0.42	0.67	6.77	10.89
M 25+30	LT	M 26+01	LT	555.0	7.8	0.42	0.67	8.56	13.77
M 26+01	LT	M 26+31	LT	205.6	6.8	0.42	0.67	3.17	5.10
M 26+31	LT	M 26+62	LT	220.8	7.3	0.42	0.67	3.41	5.48
M 26+62	LT	M 27+56	LT	776.0	8.3	0.42	0.67	11.98	19.26
M 27+32	LT	M 27+40	LT	32.2	5.0	0.42	0.67	0.50	0.80
M 27+56	LT	M 27+84	LT	366.7	7.8	0.42	0.67	5.66	9.10
M 27+84	LT	M 27+90	LT	78.6	13.5	0.42	0.67	1.21	1.95
M 28+07	LT	M 28+12	LT	86.0	13.7	0.42	0.67	1.02	1.64
M 28+12	LT	M 28+30	LT	155.7	8.5	0.42	0.67	2.40	3.86
M 28+30	LT	M 28+37	LT	58.6	8.5	0.42	0.67	0.90	1.45
M 28+37	LT	M 29+56	LT	976.2	8.0	0.42	0.67	15.06	24.22
M 28+39	LT	M 28+46	LT	31.4	5.0	0.42	0.67	0.48	0.78
M 29+56	LT	M 29+84	LT	379.7	8.4	0.42	0.67	5.86	9.42
M 29+84	LT	M 29+93	LT	55.0	6.2	0.42	0.67	0.85	1.36
M 29+93	LT	M 30+01	LT	81.1	7.1	0.42	0.67	0.94	1.52
M 30+01	LT	M 30+10	LT	59.0	7.1	0.42	0.67	0.91	1.46
M 30+10	LT	M 30+11	LT	9.6	6.4	0.42	0.67	0.15	0.24
M 30+11	LT	M 30+20	LT	87.3	7.2	0.42	0.67	1.04	1.67
M 30+20	LT	M 30+22	LT	9.7	6.5	0.42	0.67	0.15	0.24
M 30+22	LT	M 30+33	LT	83.4	7.4	0.42	0.67	1.29	2.07
M 30+33	LT	M 30+41	LT	53.5	6.7	0.42	0.67	0.83	1.33
M 30+41	LT	M 30+76	LT	265.4	7.6	0.42	0.67	4.10	6.59
M 30+50	LT	M 30+ 11	LT	43.5	5.0	0.42	0.67	0.67	1.08
M 30+76	LT	M 30+90	LT	121.4	8.1	0.42	0.67	1.87	3.01


SIDEWALK TABLE (CONT.)									
BEGIN STATION	SIDE	END STATION	SIDE	AREA OF SIDEWALK (SF)	WIDTH OF SIDEWALK (FT)	THICKNESS OF SIDEWALK (FT)	THICKNESS OF SUBBASE (FT)	ITEM 608.0101 (CY)	ITEM 304.15 (CY)
M 30+90	LT	M 31+00	LT	87.5	8.7	0.42	0.67	1.35	2.17
M 31+00	LT	M 31+11	LT	350.8	35.8	0.42	0.67	5.41	8.71
M 31+55	LT	M 31+66	LT	174.7	22.6	0.42	0.67	2.70	4.34
M 31+66	LT	M 31+80	LT	121.9	8.9	0.42	0.67	1.88	3.02
M 31+80	LT	M 31+85	LT	23.5	5.0	0.42	0.67	0.36	0.58
M 31+85	LT	M 32+17	LT	327.0	5.0	0.42	0.67	5.05	8.11
M 17+43	RT	M 17+76	RT	151.6	6.3	0.42	0.67	2.34	3.76
M 17+71	RT	T 8+29	RT	316.6	5.0	0.42	0.67	4.89	7.86
T 8+63	LT	M 18+82	RT	193.3	10.7	0.42	0.67	2.98	4.80
M 18+82	RT	M 18+87	RT	144.8	12.9	0.42	0.67	2.23	3.59
M 18+87	RT	M 19+27	RT	503.2	7.5	0.42	0.67	7.77	12.49
M 19+27	RT	M 19+61	RT	287.4	8.5	0.42	0.67	4.44	7.13
M 19+10	RT	M 19+20	RT	37.1	5.0	0.42	0.67	0.57	0.92
M 19+61	RT	M 19+87	RT	214.7	8.5	0.42	0.67	3.31	5.33
M 19+87	RT	M 20+89	RT	849.2	8.2	0.42	0.67	13.10	21.07
M 20+89	RT	M 22+17	RT	1362.3	9.6	0.42	0.67	21.02	33.81
M 22+17	RT	M 22+21	RT	202.3	9.4	0.42	0.67	3.12	5.02
M 22+38	RT	M 22+42	RT	30.7	8.6	0.42	0.67	0.47	0.76
M 22+42	RT	M 22+65	RT	237.5	10.1	0.42	0.67	3.67	5.89
M 22+49	RT	M 22+58	RT	34.7	5.0	0.42	0.67	0.54	0.86
M 22+65	RT	M 22+67	RT	15.1	8.4	0.42	0.67	0.23	0.37
M 22+67	RT	M 23+17	RT	439.7	8.7	0.42	0.67	6.79	10.91
M 23+17	RT	M 23+62	RT	395.2	8.7	0.42	0.67	6.10	9.81
M 23+62	RT	M 23+91	RT	238.2	8.4	0.42	0.67	3.68	5.91
M 23+91	RT	CS 12+11	RT	581.5	46.3	0.42	0.67	8.97	14.43
CS 12+07	LT	M 24+83	RT	471.4	39.4	0.42	0.67	7.27	11.70
M 24+83	RT	M 24+91	RT	89.9	11.3	0.42	0.67	1.39	2.23
M 24+91	RT	M 26+33	RT	1483.0	10.3	0.42	0.67	22.89	36.80
M 25+07	RT	M 25+16	RT	36.6	5.0	0.42	0.67	0.56	0.91
M 26+33	RT	M 26+75	RT	404.9	9.5	0.42	0.67	6.25	10.05
M 26+75	RT	M 26+79	RT	44.2	10.4	0.42	0.67	0.68	1.10
M 26+79	RT	M 26+82	RT	24.1	10.0	0.42	0.67	0.37	0.60
M 26+82	RT	M 27+00	RT	182.9	10.0	0.42	0.67	2.82	4.54
M 27+00	RT	M 27+04	RT	40.6	10.3	0.42	0.67	0.63	1.01
M 27+04	RT	M 27+05	RT	7.5	10.7	0.42	0.67	0.12	0.19
M 27+05	RT	CA 1+57	RT	185.7	17.2	0.42	0.67	2.86	4.61
CA 1+55	LT	M 27+48	RT	175.2	14.6	0.42	0.67	2.70	4.35
M 27+48	RT	M 27+77	RT	420.5	9.6	0.42	0.67	6.49	10.43
M 27+77	RT	M 29+37	RT	1415.0	8.8	0.42	0.67	21.84	35.11
M 28+43	RT	M 28+55	RT	44.3	5.0	0.42	0.67	0.68	1.10
M 29+37	RT	M 30+04	RT	703.6	8.3	0.42	0.67	10.86	17.46
M 30+04	RT	M 30+60	RT	420.4	7.7	0.50	0.67	7.79	10.43
M 30+60	RT	M 30+89	RT	172.7	6.0	0.42	0.67	2.67	4.29
M 30+89	RT	G 8+37	RT	618.8	15.9	0.42	0.67	9.55	15.35
G 8+59	LT	M 32+23	RT	335.3	19.0	0.42	0.67	5.17	8.32


FIELD CHANGE SHEET  
THIS SHEET SUPERCEDES SHEET 26

7	6	5	4	3	2	1	REV	DATE	DESCRIPTION
								3/17/23	CURB LINE CHANGES

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 professional are required for the  
 drawings to be used for construction.  
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 professional are required for the  
 drawings to be used for construction.

PROJECT NO.  
 200395  
 PROJECT MANAGER  
 T. FAULKNER  
 DRAWN BY  
 T. DAVIS  
 SCALE  
 AS SHOWN  
 ISSUE DATE  
 FEB. 2022

  
 PETER WOOD  
 PROFESSIONAL ENGINEER  
 082814

  
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PROJECT  
 MAIN STREET UTILITY  
 IMPROVEMENT PROJECT  
 CITY OF CORTLAND  
 CORTLAND COUNTY, NEW YORK  
 TITLE OF DRAWING  
 MISCELLANEOUS TABLES

DRAWING NO.  
**MT-01**

SHEET 26F1 OF 171



TREE REMOVAL					
ITEM 614.060204 - TREE REMOVAL OVER 6" TO 12" DIAMETER BREAST HEIGHT - STUMPS GRUBBED					
ITEM 614.060304 - TREE REMOVAL OVER 12" TO 18" DIAMETER BREAST HEIGHT - STUMPS GRUBBED					
SHEET	STATION	OFFSET	SIDE	ITEM 614.060204 (EA)	ITEM 614.060304 (EA)
PL-01	M 18+95	20.17	R	1	
PL-01	M 19+07	20.66	R	1	
PL-01	M 20+18	37.42	R		1
PL-02	M 21+32	36.53	L		1
PL-02	M 23+99	27.41	L	1	
PL-02	M 24+64	52.88	R	1	
PL-02	M 24+82	23.40	R	1	
PL-03	M 25+37	35.72	R	1	
PL-03	M 25+99	35.34	L	1	
PL-03	M 26+38	35.88	R	1	
PL-03	M 27+03	24.56	R	1	
PL-03	M 27+10	24.49	R	1	
PL-03	M 27+80	26.21	L	1	
PL-03	M 27+98	36.98	R	1	
PL-03	M 29+10	36.72	L		1
PL-03	M 29+38	36.32	R	1	
PL-04	M 30+17	36.74	L	1	
PL-04	M 30+47	35.96	R		1
PL-08	CS 16+29	36.10	R	1	

NOT IN CONTRACT

**HANDICAP PARKING BUILT-UP CURB RAMP TABLE**

STATION	SIDE	LEFT FLARE	RIGHT FLARE	LENGTH	REMARKS
		MAXIMUM FLARE SLOPE	MAXIMUM FLARE SLOPE		
M 19+14.98	R	9.50%	9.50%	8.5	
M 22+55.31	R	9.50%	9.50%	6.74	
M 23+63.13	L	9.50%	9.50%	6.53	
M 25+11.29	R	9.50%	9.50%	8.17	
M 27+35.93	L	9.50%	9.50%	10.77	
M 28+42.59	L	9.50%	9.50%	9.59	
M 28+49.13	R	9.50%	9.50%	6.76	
M 30+55.67	L	9.50%	9.50%	7.12	

NOTES:  
 1. SEE THE NYSDOT STANDARD SHEETS 608-01 SERIES.  
 2. THE LEFT AND RIGHT FLARES ARE FROM A PEDESTRIANS PERSPECTIVE AS THEY ARE FACING THE RAMP.  
 3. STATIONING IS MEASURED TO THE CENTER OF THE BOTTOM OF THE RAMP.

**RAIN GARDEN DROP CURB**

STATION	OFFSET (FT)	REMARKS
M 19+00	18.0 LT	
M 19+71	30.4 LT	
M 19+97	29.3 LT	
M 21+42	18.0 RT	
M 23+64	32.4 RT	
M 23+81	32.4 LT	DRAIN PARKING LANE
M 23+89	18.0 LT	DRAIN MAIN STREET
M 26+83	32.40 RT	
M 28+08	29.8 LT	
M 28+28	32.4 LT	

NOTE:  
 1. THE DROP CURB SHALL BE 2 FEET IN LENGTH AND CENTERED ON THE LISTED STATION OR AOB. E.  
 2. SEE DETAIL ON MD-05 FOR CURB LAYOUT.

**RAIN GARDEN INLET TABLE**

ID	STATION	SIDE	DRAIN TO	ITEM 605.1603 (LF)	ITEM 603.98080007 (LF)	REMARKS
R 1-1	M 19+00	25.5 LT	PROPOSED PIPE	30.0	10.0	BLIND 90 DEGREE CONNECTION TO 12" SICPP
R 1-2	M 19+63	30.6 LT	M 1-5	20.0	20.0	
R 1-3	M 20+03	30.6 LT	D 1-7	22.0	20.0	
R 2-1	M 21+41	24.7 LT	PROPOSED PIPE	26.0	12.0	BLIND 90 DEGREE CONNECTION TO 12" SICPP
R 2-2	M 23+77	28.8 RT	PROPOSED PIPE	36.0	8.0	BLIND 90 DEGREE CONNECTION TO 12" SICPP
R 2-3	M 23+90	27.2 LT	PROPOSED PIPE	25.0	10.0	BLIND 90 DEGREE CONNECTION TO 12" SICPP
R 3-1	M 26+95	32.00 RT	M 3-6	42.0	50.0	
R 3-2	M 28+16	28.4 LT	PROPOSED PIPE	30.0	4.0	BLIND 90 DEGREE CONNECTION TO 12" SICPP
TOTALS				231.0	134.0	

SECURITY CAMERA RELOCATION TABLE							
ITEM 680.99470025 RELOCATE CCTV CAMERA AND EQUIPMENT							
SHEET NO.	EXISTING			PROPOSED			NO. OF CAMERAS
	STA.	SIDE	OFFSET (FT)	STA.	SIDE	OFFSET (FT)	
PL-01	M 18+80	RT	35.6	M 18+80	RT	35.6	2
PL-01	M 20+06	LT	36.3	M 20+07	LT	37.7	1
PL-02	M 20+97	RT	37.5	M 20+91	RT	37.8	1
PL-02	M 24+23	LT	37.0	M 23+73	LT	37.9	2
PL-02	M 24+82	RT	37.0	M 25+16	RT	37.8	2
PL-03	M 26+80	LT	36.2	M 26+82	LT	37.7	2
PL-03	M 27+66	RT	37.4	M 27+75	RT	37.1	1
PL-03	M 29+15	RT	37.3	M 29+17	RT	37.8	1

**SIDEWALK CURB RAMP TABLE**

FIELD CHANGE SHEET  
THIS SHEET SUPERCEDES SHEET 28F2

ITEM 608.21000003 CAST IRON EMBEDDED DETECTABLE WARNING UNITS												
STATION	SIDE	RAMP TYPE	DWS OPTION	PARALLEL RAMP BACK TREATMENT	LEFT FLARE		RIGHT FLARE		LENGTH	RADIUS	QUANTITY ITEM 608.21000003 (SY)	REMARKS
					RAMP SIDE CONFIGURATION	MAXIMUM FLARE SLOPE	RAMP SIDE CONFIGURATION	MAXIMUM FLARE SLOPE				
M 17+73	L	1		A	A	9.50%	A	9.50%			1.7	SITE 1-1
M 17+78	R	1		A	A	9.50%	A	9.50%			1.1	SITE 1-2
T 8+19	R	1		A	A	9.50%	A	9.50%			1.1	SITE 1-3
M 18+41	L	1		A	A	9.50%	A	9.50%			1.6	SITE 1-4
M 18+65	R	1		A	A	9.50%	A	9.50%			1.1	SITE 1-7
M 18+84	L	1		A	A	9.50%	A	9.50%			1.1	SITE 1-5
M 18+85	R	1		A	A	9.50%	A	9.50%			1.2	SITE 1-6
M 19+75	L	1		A	A	9.50%	A	9.50%			1.1	SITE 1-8
M 19+96	L	1		A	A	9.50%	A	9.50%			1.1	SITE 1-9
M 21+25	L	11		A	A	9.50%	A	9.50%			1.1	SITE 2-9
M 21+25	R	11		A	A	9.50%	A	9.50%			1.1	SITE 2-10
M 24+06	L	1		A	A	9.50%	A	9.50%			1.3	SITE 2-1
M 24+06	R	1		A	A	9.50%	A	9.50%			1.3	SITE 2-5
M 24+22	R	1		A	A	9.50%	A	9.50%			1.1	SITE 2-6
M 24+26	L	1		A	A	9.50%	A	9.50%			1.1	SITE 2-2
M 24+60	L	1		A	A	9.50%	A	9.50%			1.1	SITE 2-3
M 24+60	R	1		A	A	9.50%	A	9.50%			1.2	SITE 2-7
M 24+73	L	1		A	A	9.50%	A	9.50%			1.2	SITE 2-4
M 24+73	R	1		A	A	9.50%	A	9.50%			1.4	SITE 2-8
M 27+18	R	1		A	A	9.50%	A	9.50%			1.1	SITE 3-1
M 27+35	R	1		A	A	9.50%	A	9.50%			1.1	SITE 3-2
M 27+70	L	1		A	A	9.50%	A	9.50%			1.1	SITE 3-4
M 27+70	R	1		A	A	9.50%	A	9.50%			1.1	SITE 3-3
M 27+90	L	1		A	A	9.50%	A	9.50%			1.1	SITE 3-5
M 28+07	L	1		A	A	9.50%	A	9.50%			1.1	SITE 3-6
M 29+70	L	11		A	A	9.50%	A	9.50%			1.1	SITE 3-7
M 29+70	R	11		A	A	9.50%	A	9.50%			1.1	SITE 3-8
M 31+02	L	1		A	A	9.50%	A	9.50%			1.1	SITE 4-1
M 31+04	R	7		A	A	9.50%	A	25.00%			1.1	SITE 4-5
M 31+11	L	7		A	A	9.50%	A	9.50%			1.1	SITE 4-2
M 31+24	R	7		A	A	25.00%	A	9.50%			1.1	SITE 4-6
M 31+60	L	7		A	A	9.50%	A	9.50%			1.3	SITE 4-3
M 31+87	L	7		A	A	9.50%	A	9.50%			1.1	SITE 4-4
M 31+99	R	4		B	A	9.50%	A	9.50%			2.5	SITE 4-7
TOTAL =											42	

NOTE:  
 1. SEE THE NYSDOT STANDARD SHEETS 608-01 SERIES.  
 2. THE LEFT AND RIGHT FLARES ARE FROM A PEDESTRIANS PERSPECTIVE AS THEY ARE FACING THE RAMP.  
 3. MATCH PROPOSED EDGE OF PAVEMENT SLOPE WITH FLUSH CURB.

**DRIVEWAY RESTORATION TABLE**

STATION	SIDE	EXISTING MATERIAL	CLASS	WIDTH (FT)	DRIVEWAY OPENING (FT)	DRIVEWAY PAVEMENT LENGTH 'PL' (FT)	DRIVEWAY TRANSITION LENGTH 'TL' (FT)	ENTERANCE TYPE	NOTES
M 21+84	LEFT	CONCRETE & ASPHALT	COMMERCIAL	34.7	34.7	35.2	-	5	CONCRETE APRON
M 22+82	RIGHT	CONCRETE & ASPHALT	COMMERCIAL	25.7	24.0	30.4	-	5	CONCRETE APRON
M 22+93	LEFT	CONCRETE & ASPHALT	COMMERCIAL	23.9	24.0	34.0	-	5	CONCRETE APRON
M 30+15	RIGHT	CONCRETE & ASPHALT	COMMERCIAL	11.6	11.6	30.5	1.0	5	CONCRETE APRON

NOTES:  
 1. SEE THE NYSDOT STANDARD SHEET 608-03 SERIES FOR FURTHER DETAILS.  
 2. DRIVEWAY STATION IS MEASURED AT THE ROADWAY CENTERLINE (NOT AT THE FACE OF CURB).  
 3. THE PROPOSED DRIVEWAY SHALL BE CONSTRUCTED USING THE FOLLOWING MATERIALS AND THICKNESSES:  
 DRIVEWAY - ASPHALT  
 3" THICK - ITEM 608.020102, HOT MIX ASPHALT SIDEWALKS DRIVEWAYS AND BICYCLE PATHS - RESIDENTIAL  
 4" THICK - ITEM 608.020102, HOT MIX ASPHALT SIDEWALKS DRIVEWAYS AND BICYCLE PATHS - COMMERCIAL  
 6" THICK - ITEM 304.15, SUBBASE COURSE, OPTIONAL TYPE - RESIDENTIAL  
 8" THICK - ITEM 304.15, SUBBASE COURSE, OPTIONAL TYPE - COMMERCIAL  
 DRIVEWAY - CONCRETE  
 6" THICK - ITEM 608.0101, CONCRETE SIDEWALKS AND DRIVEWAYS - RESIDENTIAL  
 6" THICK - ITEM 304.15, SUBBASE COURSE, OPTIONAL TYPE - RESIDENTIAL

JNT	JNT	JNT	DATE
3/17/23	12/9/22	9/28/22	
FC3 CURB RAMP REVISIONS	UPDATE DRIVEWAY TABLE	REV	

PROJECT NO. 200395  
 PROJECT MANAGER T. FAULKNER  
 DRAWN BY T. DAVIS  
 SCALE AS SHOWN  
 ISSUE DATE FEB. 2022



PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT  
 CITY OF CORTLAND  
 CORTLAND COUNTY, NEW YORK  
 TITLE OF DRAWING: MISCELLANEOUS TABLES

TABLE OF GRADING RELEASES

REPUTED OWNER	TAX ACCOUNT NUMBER	ACQUISITION TYPE	PURPOSE	REMARKS
MCNEIL DEVELOPMENT CO LLC	86.58-04-01.000	RELEASE	PROPOSED SIDEWALK	
55 MAIN STREET HOLDINGS LLC (STUDENT HOUSING)	86.58-02-22.000	RELEASE	PROPOSED SIDEWALK	
55 MAIN STREET HOLDINGS LLC (STUDENT HOUSING)	86.58-02-23.000	RELEASE	PROPOSED SIDEWALK	
HOTEL ON MAIN LLC	86.58-02-27.000	RELEASE	PROPOSED SIDEWALK	
ZEUS II OF CORTLAND INC. (NEW YORK BAGEL)	86.58-02-42.000	RELEASE	PROPOSED SIDEWALK	
CLOCKTOWER HOLDINGS LLC (CORTLAND STANDARD)	86.66-01-15.000	RELEASE	PROPOSED SIDEWALK TRAFFIC CONDUIT BETWEEN PULLBOXES	
GEIBEL THOMAS C & GEIBEL EVAN C (CORTLAND STANDARD)	86.66-01-14.000	RELEASE	PROPOSED SIDEWALK	
POST OFFICE USA	86.58-03-16.000	RELEASE	PROPOSED SIDEWALK	
VFW POST 2354	86.58-03-15.100	RELEASE	PROPOSED SIDEWALK	
CITY OF CORTLAND	86.58-03-14.000	RELEASE	PROPOSED SIDEWALK	
SEALES PROPERTIES LLC (MARKETPLACE MALL)	86.58-03-13.000	RELEASE	PROPOSED SIDEWALK	
KAJEN LLC (ROOTS HAIR SALON)	86.58-01-12.000	RELEASE	PROPOSED SIDEWALK	
SDF CORTLAND HOUSE LLC (BAILEY PLACE INSURANCE)	86.50-03-18.000	RELEASE	PROPOSED SIDEWALK	
TOMAARON, LLC	86.58-02-31	RELEASE	PROPOSED SIDEWALK	
CATHOLIC CHARITIES	86.58-02-32	RELEASE	PROPOSED SIDEWALK	

SIDEWALK AREAWAY LOCATIONS

STATION	OFFSET (FT)	ADDRESS	REMARKS
M19+12	35.6 RT	107 MAIN	
M22+83	36.7 RT	73 MAIN	
M25+35	45.56 LT	54 MAIN	
M25+58	45.59 LT	54 MAIN	EMERGENCY EXIT IN AREAWAY
M25+59	37.93RT	43-49 MAIN	
M25+94	45.13 LT	50 MAIN	
M26+52	46.2 RT	37-39 MAIN	
M27+04	39.4 LT	36 MAIN	
		35 MAIN	
		31-33 MAIN	
M27+99	36.6 RT	22-29 MAIN	
M29+87	37.4 RT	9 MAIN	
		8 MAIN	
		1 MAIN	
		24 CHURCH	
		12-14 CENTRAL	

NOTES:

- AREAWAY LOCATIONS WERE TAKEN FROM SURVEY, RECORD INFORMATION, AND OWNER KNOWLEDGE AND IS NOT A COMPLETE LIST OF VAULT WITH IN THE PROTECT LIMITS. CONTRACTOR TO VERIFY LOCATION OF ALL AREAWAYS PRIOR TO CONSTRUCTION.
- ALL LOCATIONS ARE APPROXIMATE.
- INDIVIDUAL AREAWAYS WILL BE CAPPED, ABANDON, OR RECONSTRUCTED AS DETERMINED BY THE CITY AND AOE.
- DETAILS FOR INDIVIDUAL AREAWAYS TO BE CAPPED OR RECONSTRUCTED NOTED ABOVE SHALL BE SUBMITTED FOR REVIEW AND APPROVAL PRIOR TO WORK.

REV	DESCRIPTION	DATE	BY
1	UPDATE DRIVEWAY TABLE	9/28/22	JNT
2			
3			
4			
5			
6			
7			

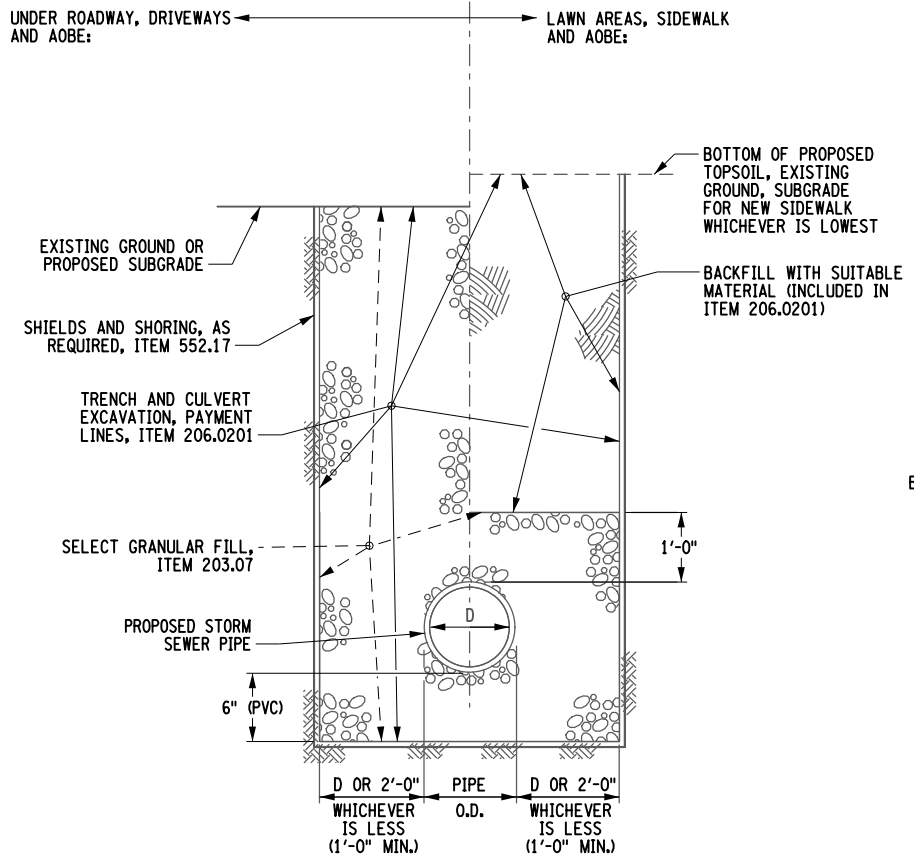
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of the contract.

EA PROJECT NO.  
200395  
PROJECT MANAGER  
T. FAULKNER  
DRAWN BY  
T. DAVIS  
SCALE  
AS SHOWN  
ISSUE DATE  
FEB. 2022

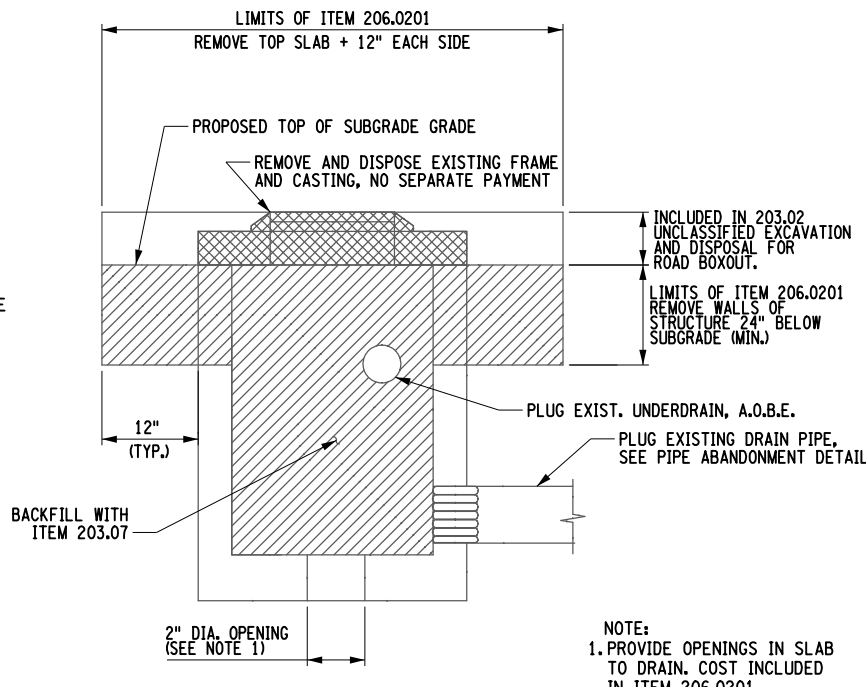


PROJECT  
MAIN STREET UTILITY  
IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK  
TITLE OF DRAWING  
MISCELLANEOUS TABLES

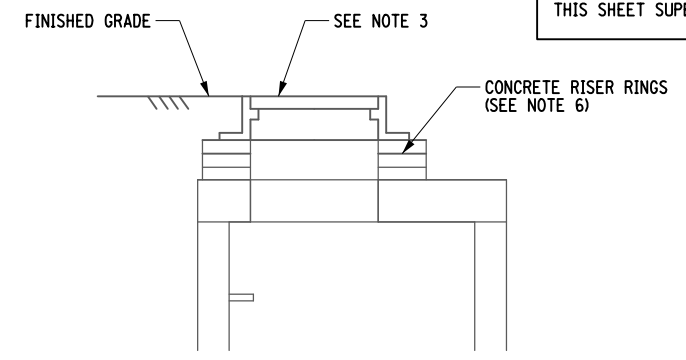
DRAWING NO.  
**MT-04**  
SHEET 29F1 OF 171



**STORM SEWER PIPE TRENCH DETAIL**  
NOT TO SCALE



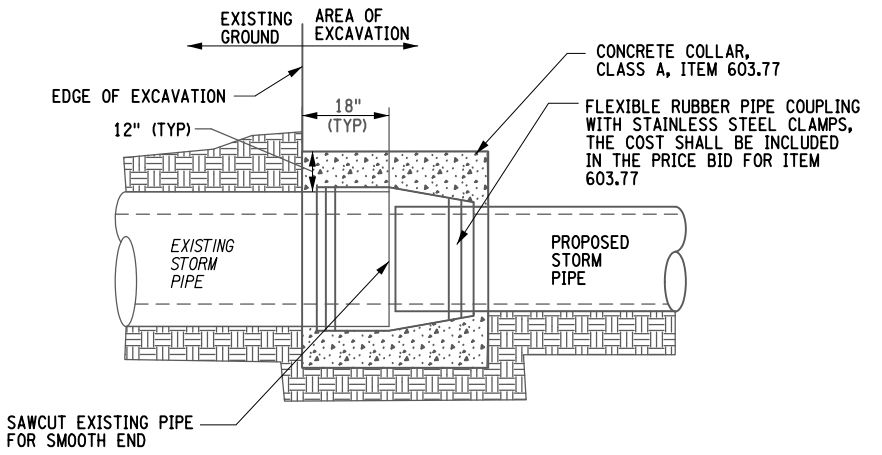
**ABANDON EXISTING STORM SEWER MANHOLE IN PLACE**  
NOT TO SCALE



**ALTER DRAINAGE STRUCTURES, LEACHING BASINS AND MANHOLES (ADJUST MANHOLE FRAME AND COVER / GRATE)**  
NOT TO SCALE

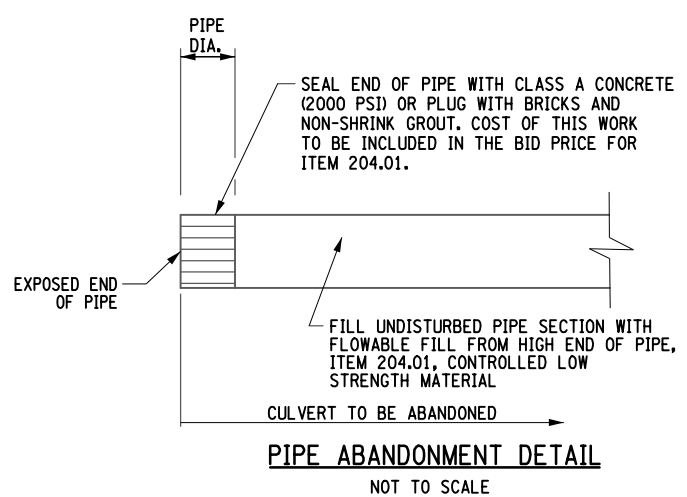
ITEM 604.070401 ALTER DRAINAGE STRUCTURE - ADJUST MANHOLE FRAME AND GRATE

- NOTES:**
1. THE COST OF CONCRETE ADJUSTMENT RINGS, CONCRETE COLLARS AND PRECAST CONCRETE PAVERS ARE INCLUDED IN THE PRICE BID FOR THIS ITEM.
  2. COAT ALL EXPOSED SURFACES OF NEW ADJUSTMENT MATERIAL WITH TWO COATS OF DAMP-PROOFING.
  3. SLOPE SHEETING & BRACING PER OSHA, SPECIFICATION, ITEM 552.17 TO BE USED ONLY IF CONTRACTOR IS UNABLE TO LAY BACK TRENCH AT A 1:1 SLOPE AND THE DEPTH OF THE EXCAVATION FROM THE ORIGINAL GROUND TO BOTTOM OF TRENCH EXCEEDS 5 FT.
  4. ALL DRAINAGE STRUCTURES LOCATED WITHIN THE PAVEMENT SECTION SHALL BE ADJUSTED TO GRADE AFTER PLACING BINDER. COST TO BE INCLUDED IN THE PRICE BID FOR THIS ITEM. ALL DRAINAGE STRUCTURES AND MANHOLES LOCATED WITH IN THE PAVEMENT SHALL BE ALTERED TO FINAL GRADE PRIOR TO PLACING TOP COURSE. COST TO BE INCLUDED IN THE PRICE BID FOR THIS ITEM.
  5. FOR ALL DRAINAGE STRUCTURE ADJUSTMENTS, A MAXIMUM OF 6 INCHES OF PRECAST CONCRETE PAVERS AND MORTAR FOR CONCRETE, OR A MAXIMUM OF 2 INCHES OF MORTAR FOR CONCRETE ALONE, SHALL BE USED FOR TOP SLAB AND/OR FRAME AND GRATE ADJUSTMENT. FOR ADJUSTMENTS OVER 6 INCHES AND NOT TO EXCEED 12 INCHES, CAST IN PLACE CONCRETE OR A PRECAST CONCRETE ADJUSTMENT ELEMENT SHALL BE USED. A MAXIMUM OF 2 INCHES OF MORTAR FOR CONCRETE SHALL BE ALLOWED ON BOTH THE TOP AND BOTTOM OF THE PRECAST DEVICES. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE AND SHAPE OF ALL REQUIRED ADJUSTMENT RINGS, AND OTHER NECESSARY ADJUSTMENT DEVICES.



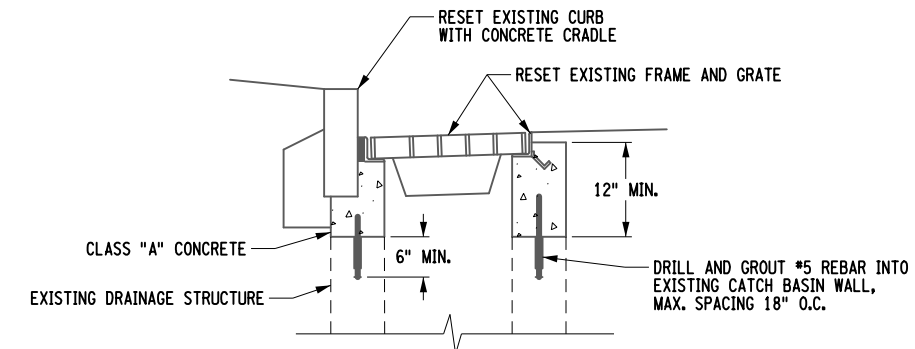
**CONNECT PROPOSED STORM PIPE TO EXISTING STORM PIPE**  
NOT TO SCALE

- NOTE:**
1. COST OF SAWCUTTING PIPE & FURNISHING/INSTALLATION OF COUPLING & PIPE STUB CONNECTION TO BE INCLUDED IN COST FOR CONCRETE COLLAR, ITEM 603.77.
  2. A CONTINGENCY QUANTITY OF 5 EA IS INCLUDED TO BE USED AOBES.



**PIPE ABANDONMENT DETAIL**  
NOT TO SCALE

- NOTES:**
1. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ALL ADJACENT BUILDINGS FROM DAMAGE DURING ABANDONMENT.
  2. ADJUST THICKNESS OF BULKHEAD BASED OFF FIELD CONDITIONS.



**ALTER DRAINAGE STRUCTURES, LEACHING BASINS AND MANHOLE (RESET EXISTING FRAME AND GRATE)**  
ITEM 604.070301  
NOT TO SCALE

- NOTES:**
1. REMOVE TOP OF STRUCTURE WALLS, A.O.B.E..
  2. COAT ALL EXPOSED CONCRETE USED FOR DRAINAGE STRUCTURE REPAIRS WITH TWO COATS OF DAMP-PROOFING.

200395\_sph\_msd\_md-01\_A1.dgn  
15-APR-2022 07:38  
Jaymes

REV	DESCRIPTION	DATE	BY
1		4/13/22	JNT
2			
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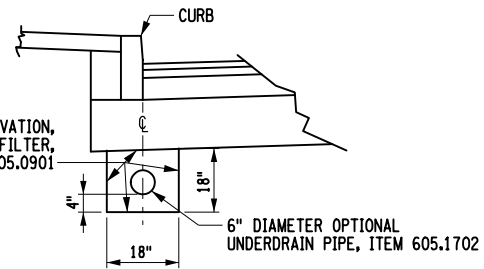
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EA PROJECT NO. 200395  
PROJECT MANAGER T. FAULKNER  
DRAWN BY C. CLARK  
SCALE AS SHOWN  
ISSUE DATE FEB. 2022

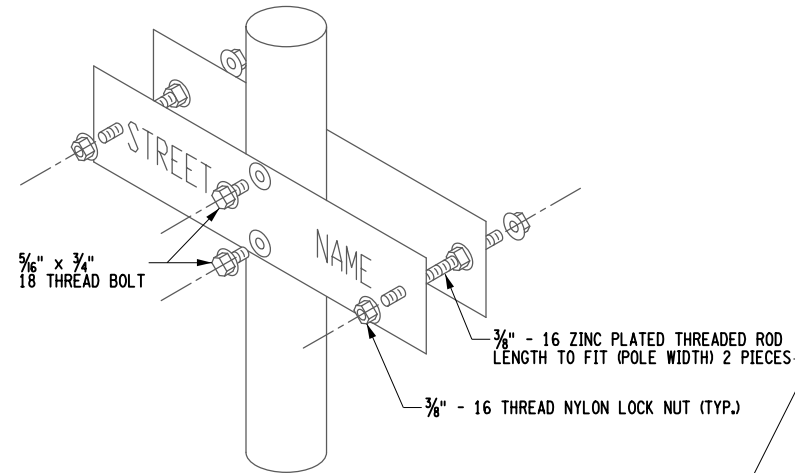


PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK  
TITLE OF DRAWING: MISCELLANEOUS DETAILS

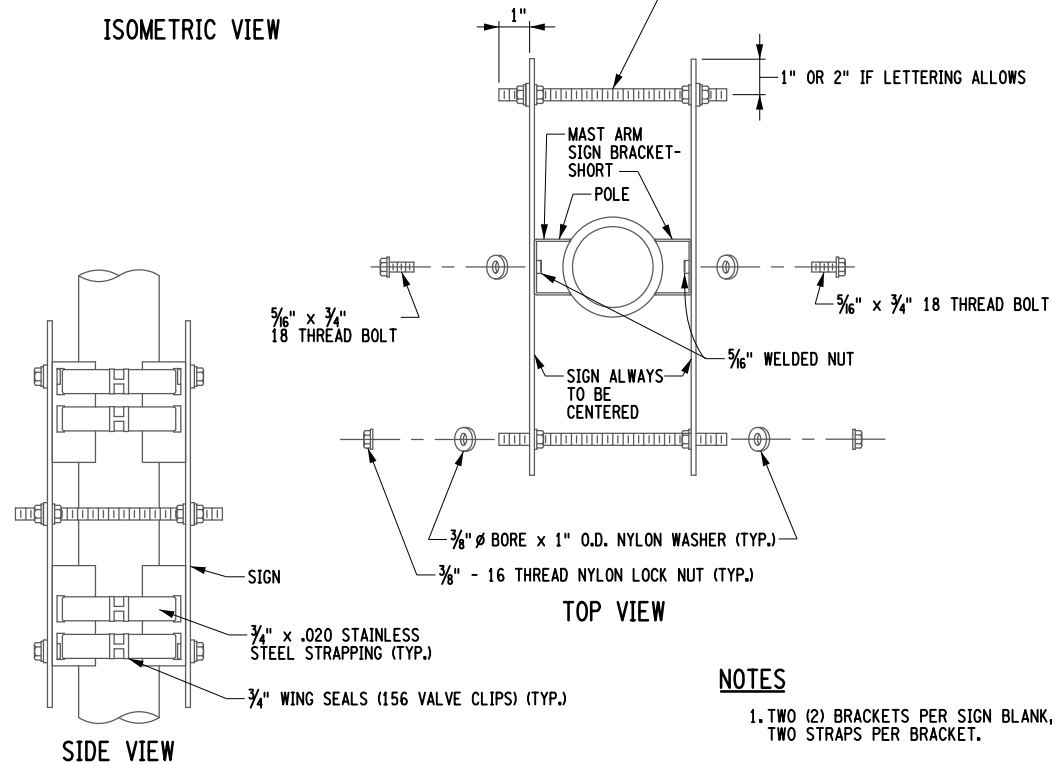
LIMIT OF TRENCH AND CULVERT EXCAVATION, ITEM 206.0201 AND UNDERDRAIN FILTER, TYPE 1, ITEM 605.0901



**CURB WITH UNDERDRAIN DETAIL**  
NOT TO SCALE



ISOMETRIC VIEW

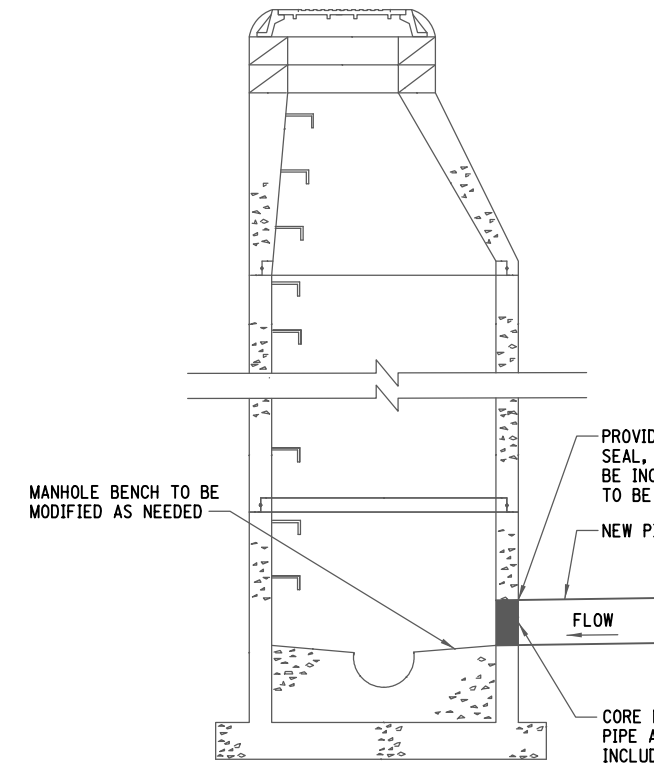


**NOTES**

1. TWO (2) BRACKETS PER SIGN BLANK, TWO STRAPS PER BRACKET.

**POLE MOUNTED BACK TO BACK STREET NAME SIGN INSTALLATION**

ITEM 645.85  
NOT TO SCALE



**ALTER EXISTING DRAINAGE STRUCTURE FOR NEW PIPE DETAIL**

ITEM 604.070302  
NOT TO SCALE

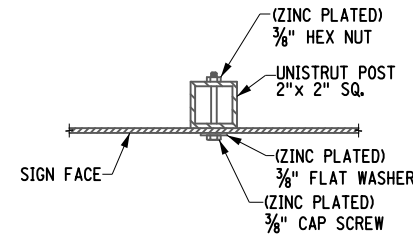
**ALTER/ADJUST MANHOLE NOTES**

ALL WORK AND MATERIALS PERTAINING TO ALTERATIONS/ADJUSTMENTS TO EXISTING MANHOLES SHALL BE PAID FOR UNDER THEIR RESPECTIVE ITEMS. ITEM 604.070301 AND, 604.070302, UNLESS OTHERWISE SHOWN ON PLANS.

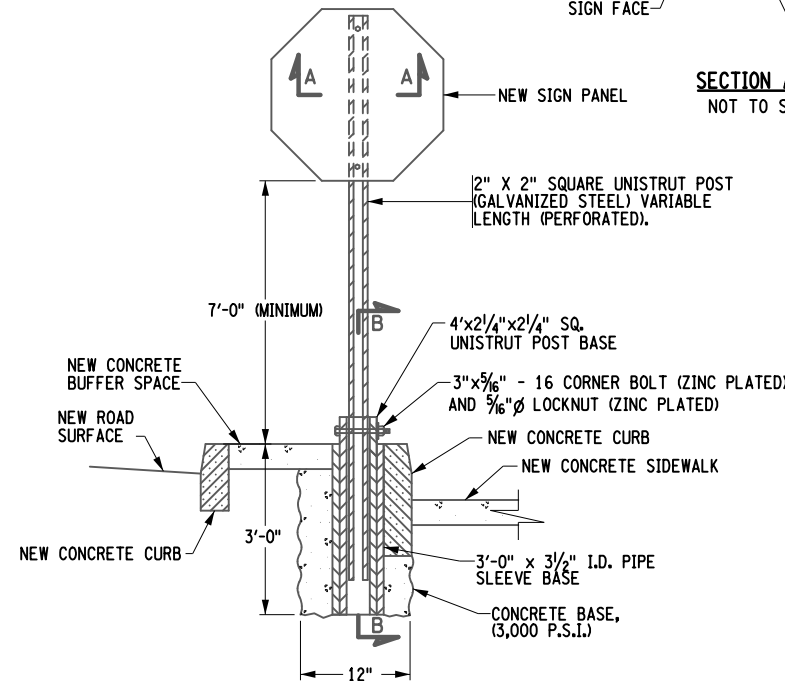
EXCAVATION/BACKFILL: THE CONTRACTOR SHALL EXCAVATE 2 FT AROUND THE OUTSIDE OF THE EXISTING MANHOLE WHICH IS TO BE ALTERED/ADJUSTED TO A DEPTH NECESSARY TO PERFORM THE WORK. WITHIN THE EXISTING OR PROPOSED PAVEMENT, HE SHALL BACKFILL TRENCH WITH SELECT GRANULAR FILL (CONFORMING TO THE MATERIAL REQUIREMENTS OF 203.07) TO SUBGRADE, OUTSIDE THE PAVEMENT, HE WILL BACKFILL TRENCH WITH SUITABLE EXCAVATED MATERIAL. ALL EXCAVATION AND BACKFILL WILL BE INCLUDED IN PRICE BID FOR ITEM 604.070302.

PROVIDE A WATERTIGHT PIPE TO STRUCTURE SEAL, TO BE APPROVED BY OWNER. COST TO BE INCLUDED IN ITEM 604.070302 CONNECTION TO BE RESILIENT AND WATERTIGHT.

CORE DRILL HOLE FOR NEW PIPE AS NEEDED. COST TO BE INCLUDED IN UNIT PRICE BID FOR ITEM 604.070302.



SECTION A - A  
NOT TO SCALE



**SIGN SLEEVE - TYPICAL POST MOUNT SIGN INSTALLATION IN CONCRETE AND ASPHALT**  
NOT TO SCALE

**NOTES:**

1. SIGN POSTS IN CONCRETE, ASPHALT OR COLORED AND IMPRINTED CONCRETE SHALL BE MOUNTED IN A SIGN SLEEVE. THE COST OF THE SIGN SLEEVE SHALL BE INCLUDED IN THE PRICE OF THE SIGN POST.
2. FOR SIGN SLEEVE LOCATION SEE DWG. NO. SDS-1.

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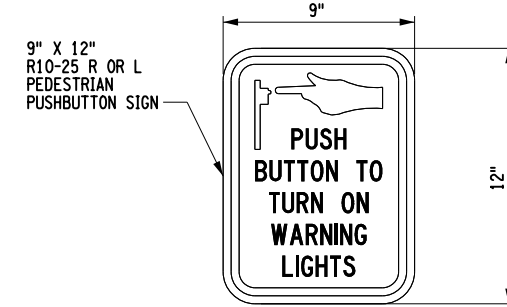
EA PROJECT NO. 200395  
PROJECT MANAGER T. FAULKNER  
DRAWN BY C. CLARK  
SCALE AS SHOWN  
ISSUE DATE FEB. 2022



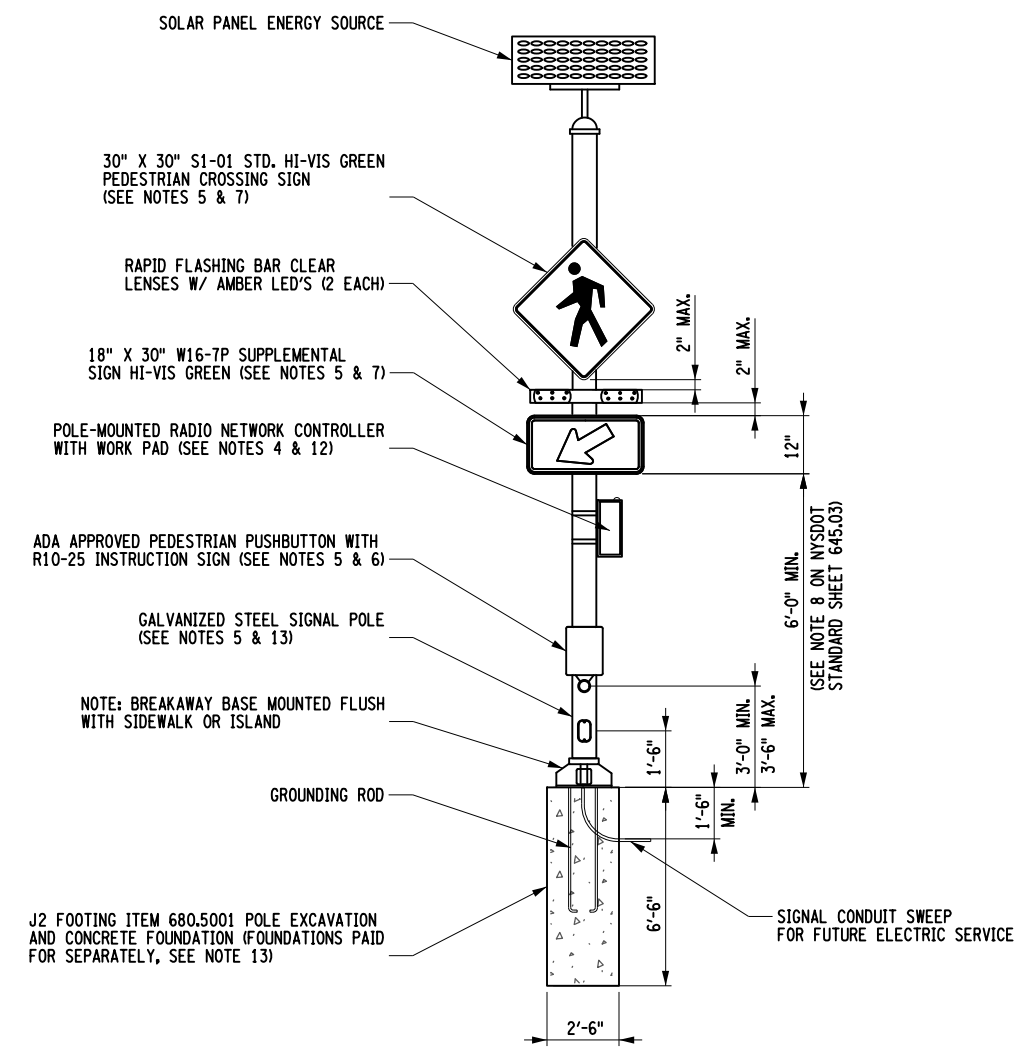
PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK  
TITLE OF DRAWING: MISCELLANEOUS DETAILS

DRAWING NO. MD-02  
SHEET 31 OF 169





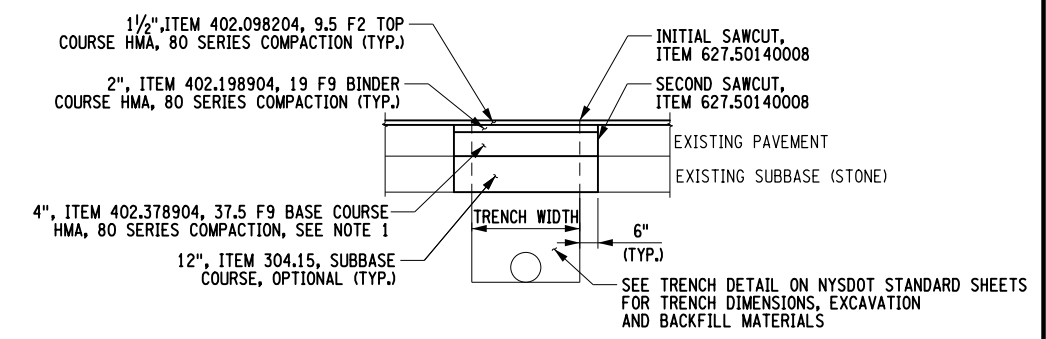
PUSH BUTTON SIGN DETAIL  
NOT TO SCALE



RECTANGULAR RAPID FLASHING BEACON (RRFB) ASSEMBLY  
ITEM NO 680.82254310

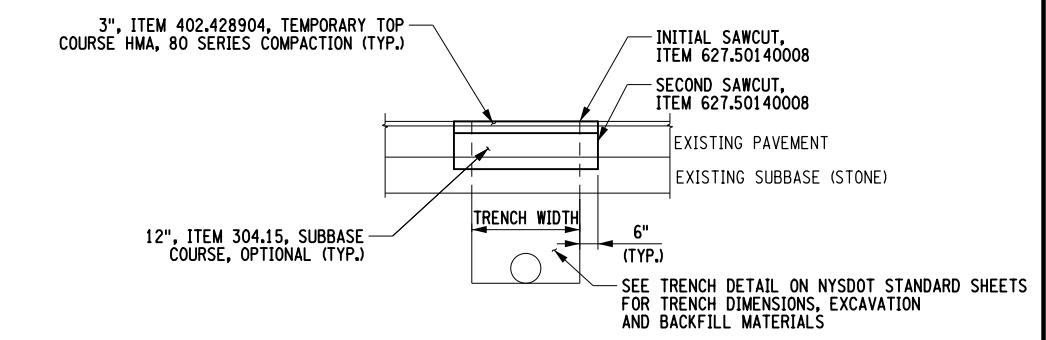
RRFB NOTES:

1. NOTIFY DIG SAFELY - NEW YORK AT (800) 962-7962 PRIOR TO ANY EXCAVATION.
2. WIDTH OF SOLAR PANEL AND LED SIGNAL INDICATION ASSEMBLY SHALL NOT EXCEED THE WIDTH OF SIGN PANEL TO AVOID DAMAGE AND POTENTIAL UTILITY CONFLICTS.
3. ALL ADA STANDARD SHALL BE MET WITH PLACEMENT OF THE SIGN WITH THE PROPOSED CROSSWALKS.
4. WHEN MULTIPLE UNITS ARE USED AT A LOCATION CONTRACTOR SHALL USE DIFFERENT RADIO FREQUENCIES TO AVOID COMMUNICATION ISSUES.
5. THE UNIT PRICE BID FOR ITEMS 680.82254310 - RECTANGULAR RAPID FLASHING BEACONS SHALL ALSO INCLUDE: SIGNAL POLE, SIGNS, BREAKAWAY TRANSFORMER BASE AND APS BUSH BUTTONS.
6. ALL RECTANGULAR RAPID FLASHING BEACONS SHALL INCLUDE AN ADA PEDESTRIAN PUSHBUTTON MEETING THE REQUIREMENTS OF ITEM 680.81310209 - ACCESSIBLE PEDESTRIAN SIGNAL (APS) WITHOUT POLE. COST TO BE INCLUDED IN THE UNIT BID PRICE FOR ITEMS 680.82254310 - RECTANGULAR RAPID FLASHING BEACONS.
7. SINGLE DIRECTION BEACONS WILL REQUIRE 1 SIGN, BI DIRECTIONAL BEACONS WILL REQUIRE 2 SIGNS.
8. THE BATTERY AND SOLAR POWERED COLLECTOR SHALL MEET ALL REQUIREMENTS FOR APS PUSH BUTTONS.
9. A CONDUIT SWEEP SHALL BE INSTALLED IN THE POLE FOUNDATION.
10. WHEN USED IN PAIRS/SET (SUCH AS ON BOTH TERMINUS POINT OF A CROSSWALK) ACTIVATION OF ONE SHALL ACTIVATE THE OTHER(S) IN THE SET/SYSTEM.
11. POLE PENETRATING MOUNTING DEVICES (RELATING TO LIGHTS, SIGNS, CABINETS, CONDUITS, CLAMPS, BUTTONS, ETC.) SHALL NOT SIGNIFICANTLY DEGRADE THE INTEGRITY OF THE SIGNAL POLE.
12. THE POLE-MOUNTED RADIO NETWORK CONTROLLER CABINET SHALL NOT INTRUDE INTO THE SIDEWALK AREA OR OBSTRUCT THE PEDESTRIAN BUTTON. THE CABINET SHALL BE MOUNTED ON THE SIDE OF THE POLE AWAY FROM APPROACHING TRAFFIC AT A HEIGHT BETWEEN 3.5'-4.5' FROM THE BOTTOM OF THE CABINET TO THE FINISHED GROUND SURFACE. IN UNPAVED AREAS THE CONCRETE WORK PAD SHALL BE CONSTRUCTED IN FRONT OF THE CABINET DOOR (AOB) NOT TO EXCEED 5'X5'X4" DEEP AND SHALL ABUT AND BE FLUSH WITH THE POLE FOUNDATION. THE CABINET SHALL BE OF SUFFICIENT SIZE TO HOUSE ALL REQUIRED EQUIPMENT.
13. THIS ASSEMBLY SHALL INCLUDE A GALVANIZED STEEL POLE WITH AN APPROVED BREAKAWAY TRANSFORMER BASE AND CONCRETE FOUNDATION MEETING ALL THE MATERIAL REQUIREMENTS OF STANDARD SPECIFICATION SECTION 680-1 AND BE SUITABLE TO HANDLE THE STATIC & DYNAMIC LOADING OF THE ASSEMBLY AS PER MANUFACTURER REQUIREMENTS. FOR FOUNDATION REINFORCEMENT, SEE STANDARD SHEET FOR TRAFFIC SIGNAL POLE FOUNDATIONS, CODE J-2.



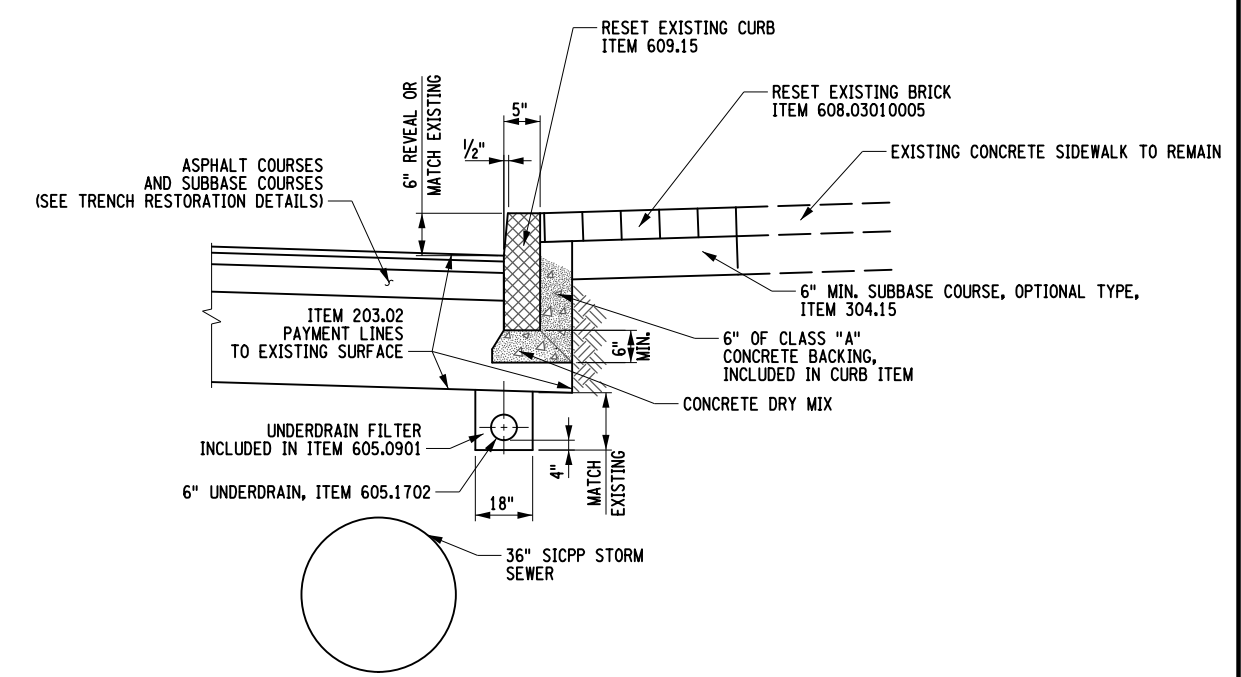
PAVEMENT TRENCH RESTORATION DETAIL  
N.T.S.

- NOTES:
1. THE THICKNESS OF THE BASE COURSE SHALL BE A MINIMUM OF 4" AND WILL BE INCREASED TO A MAXIMUM OF 8", SO THAT THE BOTTOM OF THE NEW BASE COURSE MATCHES THE ELEVATION OF THE EXISTING BASE COURSE.
  2. DILUTED TACK COAT, ITEM 407.0102 SHALL BE PLACED BETWEEN ALL ASPHALT COURSES, LIFTS AND VERTICAL EDGES.



TEMPORARY PAVEMENT TRENCH RESTORATION DETAIL  
N.T.S.

- NOTES:
1. DILUTED TACK COAT, ITEM 407.0102 SHALL BE PLACED BETWEEN ALL ASPHALT COURSES, LIFTS AND VERTICAL EDGES.



RESET GRANITE CURB DETAIL  
WITH PERFORATED UNDERDRAIN  
NOT TO SCALE

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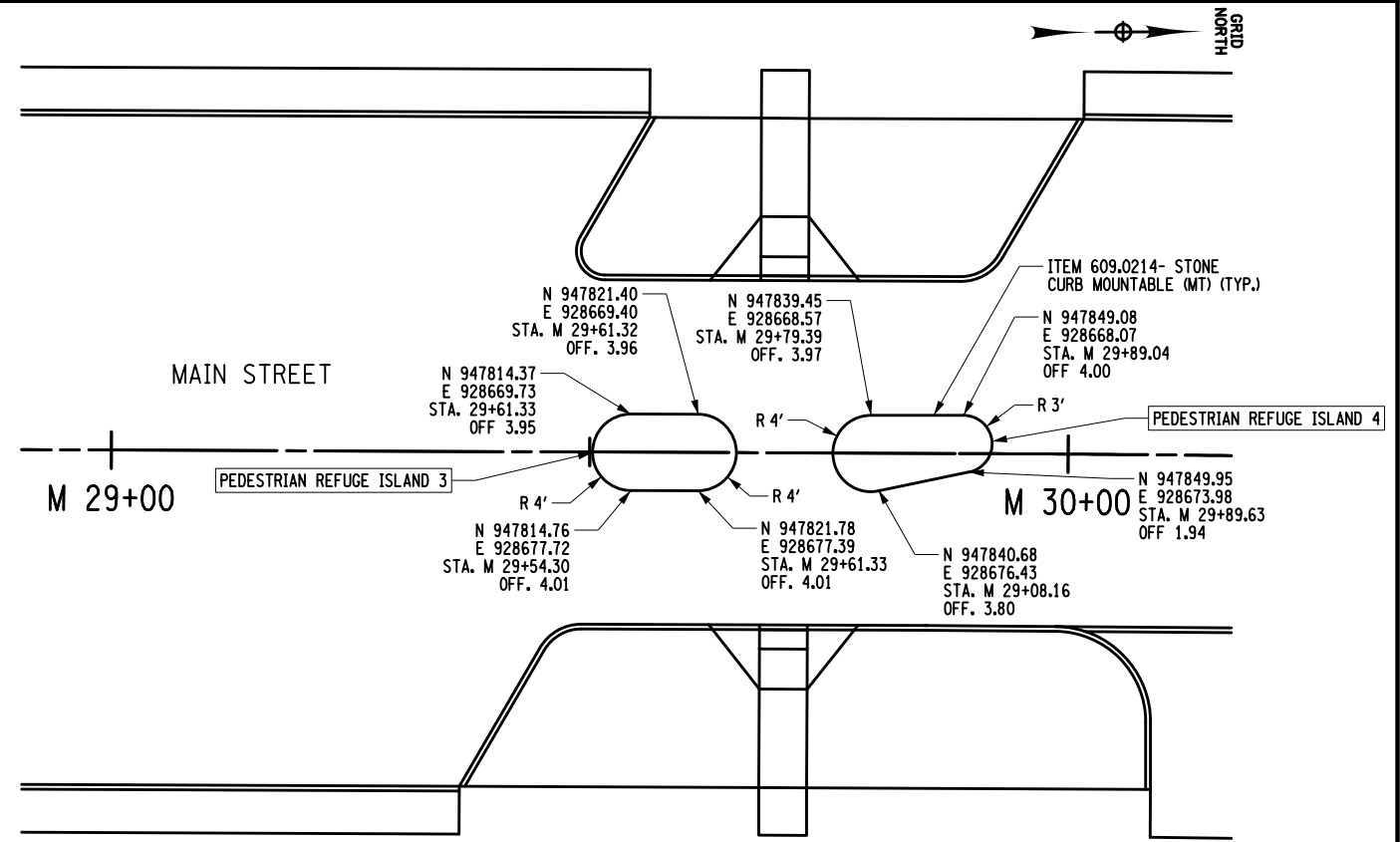
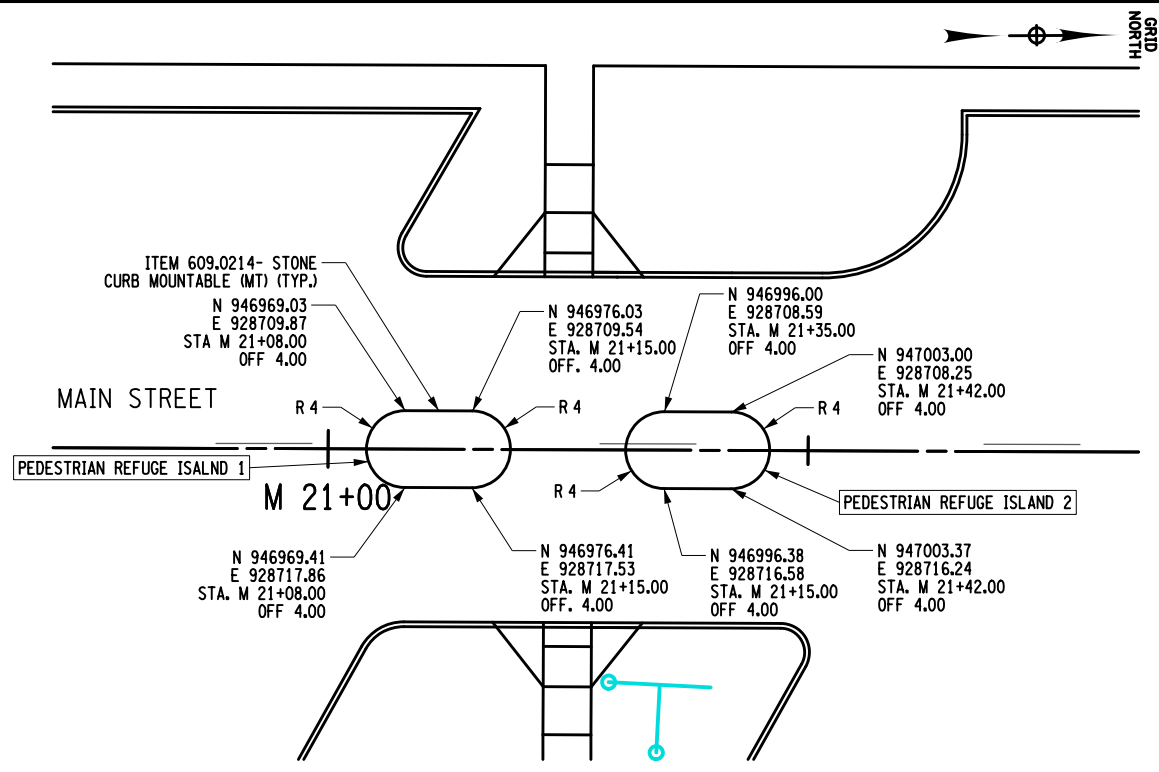
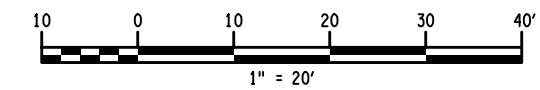
PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT  
 CITY OF CORTLAND  
 CORTLAND COUNTY, NEW YORK  
 TITLE OF DRAWING: MISCELLANEOUS DETAILS  
 DRAWING NO.: MD-03  
 SHEET 32 OF 169

PROJECT NO.: 200395  
 PROJECT MANAGER: T. FAULKNER  
 DRAWN BY: C. CLARK  
 SCALE: AS SHOWN  
 ISSUE DATE: FEB. 2022

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**NOTE:**  
 1. FOR LANDSCAPE DESIGN AT RAMPS SEE DWGS. LA-1 TO LA-8.

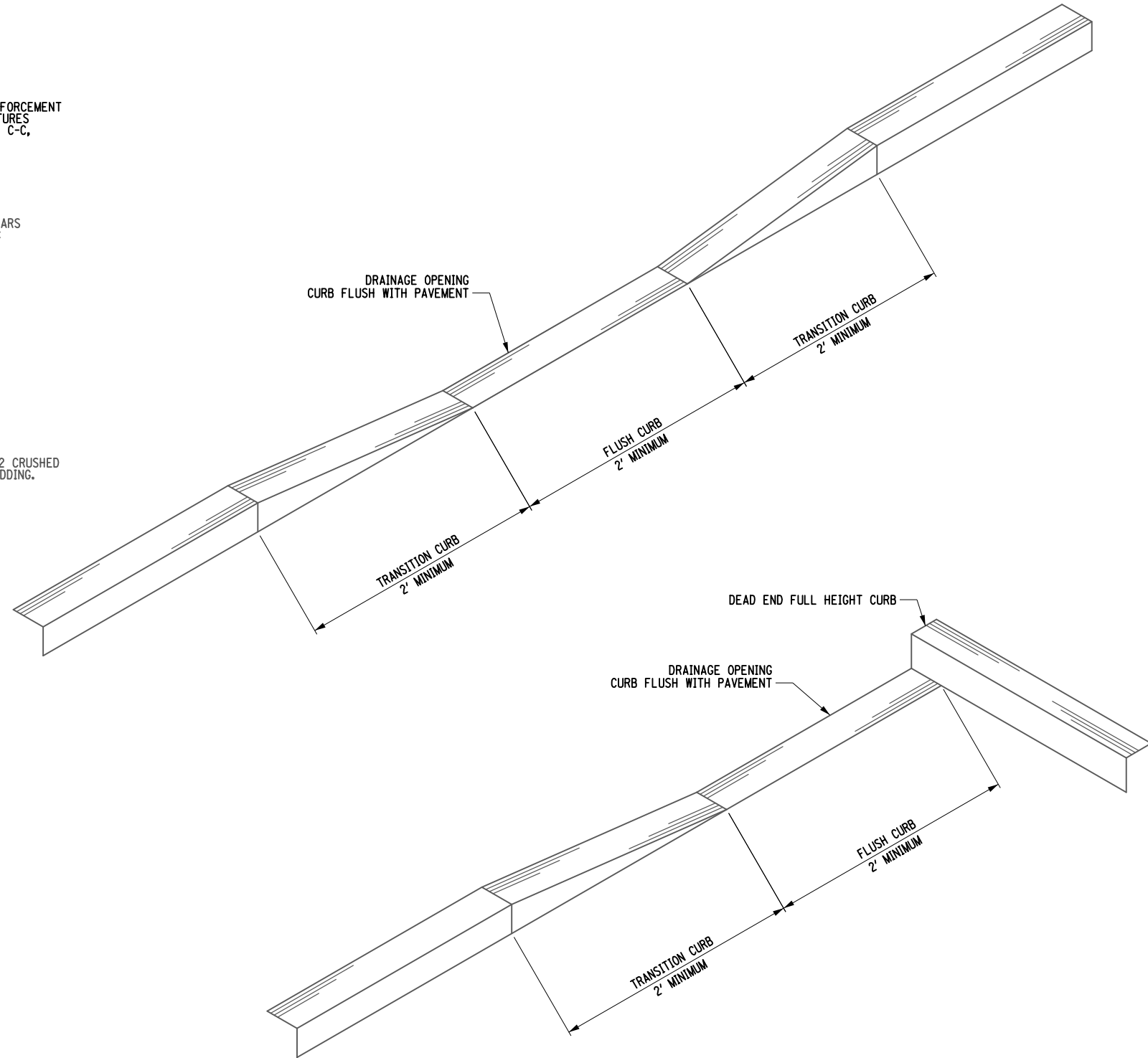
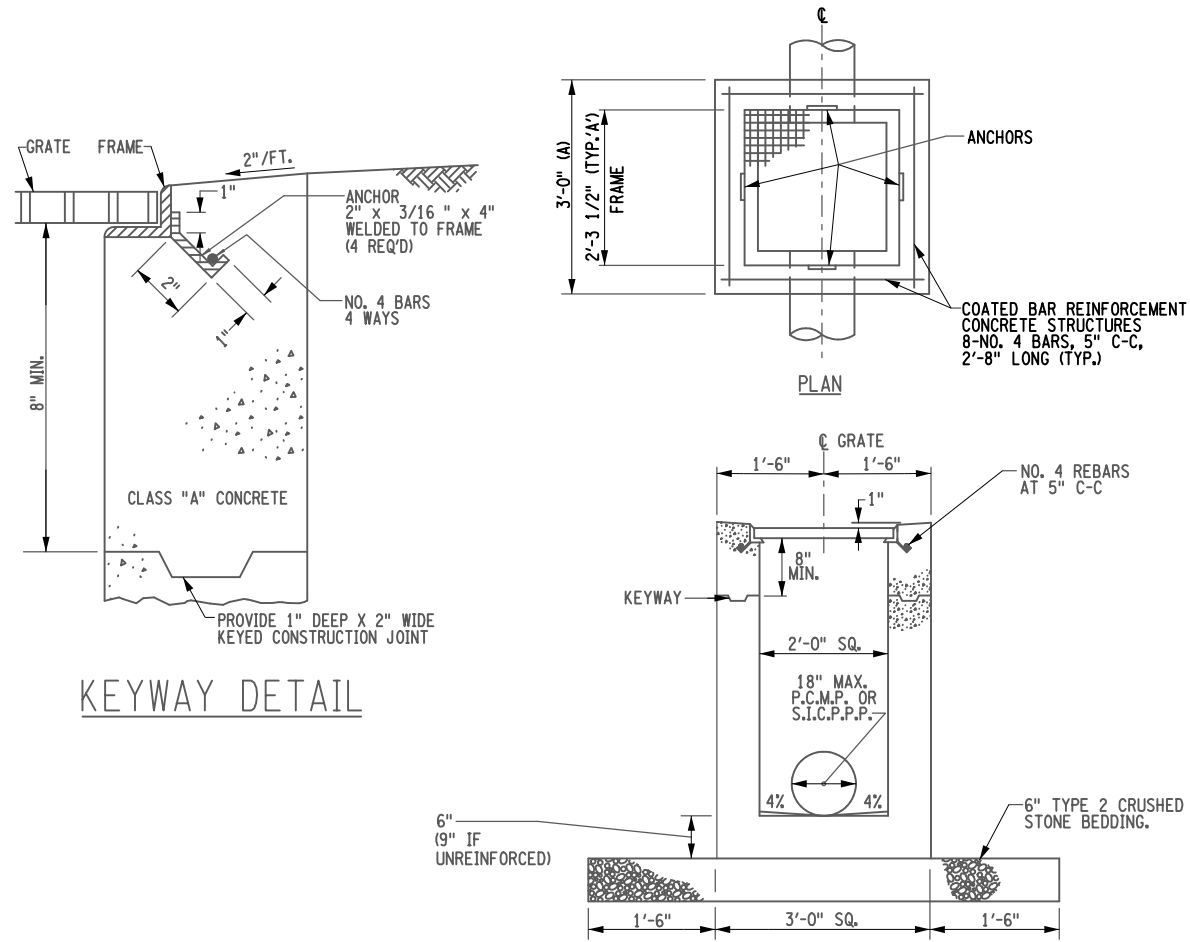


PEDESTRIAN REFUGE ISLAND DETAILS

PROJECT		MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK	
TITLE OF DRAWING		MISCELLANEOUS DETAILS	
DRAWING NO.		MD-04	
PROJECT NO.		200395	
PROJECT MANAGER		T. FAULKNER	
DRAWN BY		P. MACCO	
SCALE		AS SHOWN	
ISSUE DATE		FEB. 2022	
ISSUE NO.		1	
DATE		FEB. 2022	
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 \$500, or imprisonment for not more than  
 6 months, or both, at the discretion of  
 the court.



**CURB OPENING AT RAIN GARDENS**  
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- NOTES:**
- FOR ADDITIONAL DATA AND DETAILS OF RECTANGULAR AND RETICULINE TYPES OF FRAMES & GRATES, SEE N.Y.S.D.O.T. STANDARD SHEET 655-01.
  - WHEN APPLICABLE EXTERIORS OF ALL DROP INLETS SHALL BE COATED WITH TWO COATS OF HIGH BUILD COAL TAR PAINT. AFTER INSTALLATION IS COMPLETE AND THE BENCH IS INSTALLED, THE INTERIOR OF ALL DROP INLETS SHALL BE COATED WITH TWO COATS OF EPOXY RESIN DAMP PROOFING.
  - WALL THICKNESS SHALL BE 6" IF REINFORCED, 8" IF UNREINFORCED. ALL PIPE CONNECTIONS SHALL BE MADE WITH 100% MORTAR.
  - CLASS "A" CONCRETE IS TO BE USED. ALL PIPE CONNECTIONS SHALL BE MADE WITH 100% MORTAR.
  - ANY CONNECTIONS TO SIDES WITH NO KNOCK OUT MUST BE CORE-BORED OR DI REPLACED.
  - CLASS "A" CONCRETE BENCHES SHALL BE CAST-IN-PLACE ON ALL STORM DROP INLETS REGARDLESS OF PIPE DIAMETER.
  - ALL MATERIALS (PRECAST STRUCTURE, FRAME AND GRATE, STONE BEDDING, UNDERDRAIN FILTER STONE, WEEP PIPE, ETC.) TO BE INCLUDED IN THE PRICE BID FOR ITEM 604.500401. THE COST FOR EXCAVATION AND BACKFILL TO BE PAID FOR UNDER THE RESPECTIVE ITEMS.

FRAMES & GRATES	
TYPE 'A'	
FRAME:	2'-4 15/16" x 2'-3 1/2"
GRATE:	2'-3 11/16" x 2'-2 1/2"

**SPECIAL DRAINAGE STRUCTURE**  
**FIELD INLET**  
**ITEM 604.500401**

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EA PROJECT NO.  
200395  
PROJECT MANAGER  
T. FAULKNER  
DRAWN BY  
J. TANSKI  
SCALE  
AS SHOWN  
ISSUE DATE  
FEB. 2022

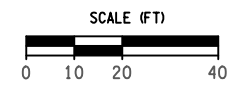
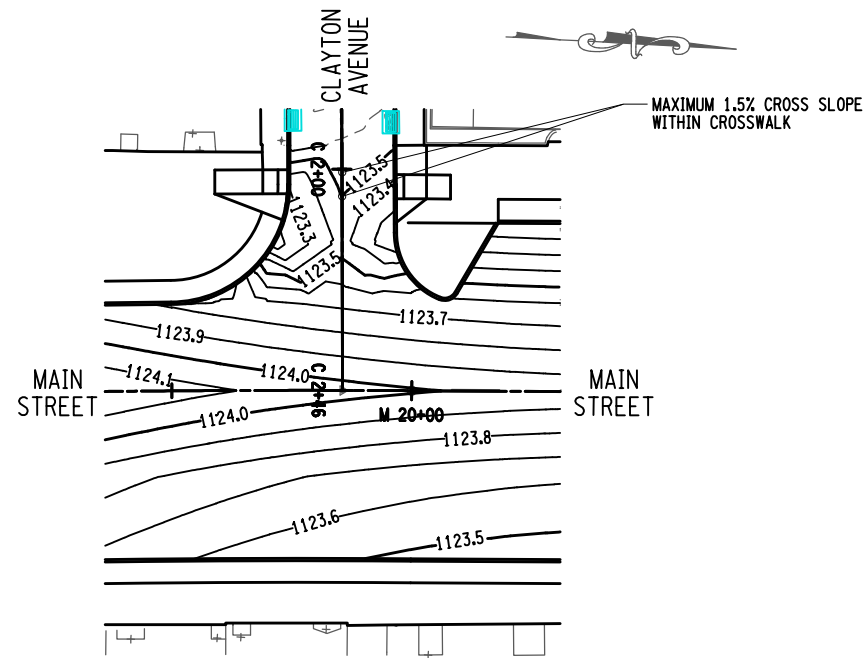
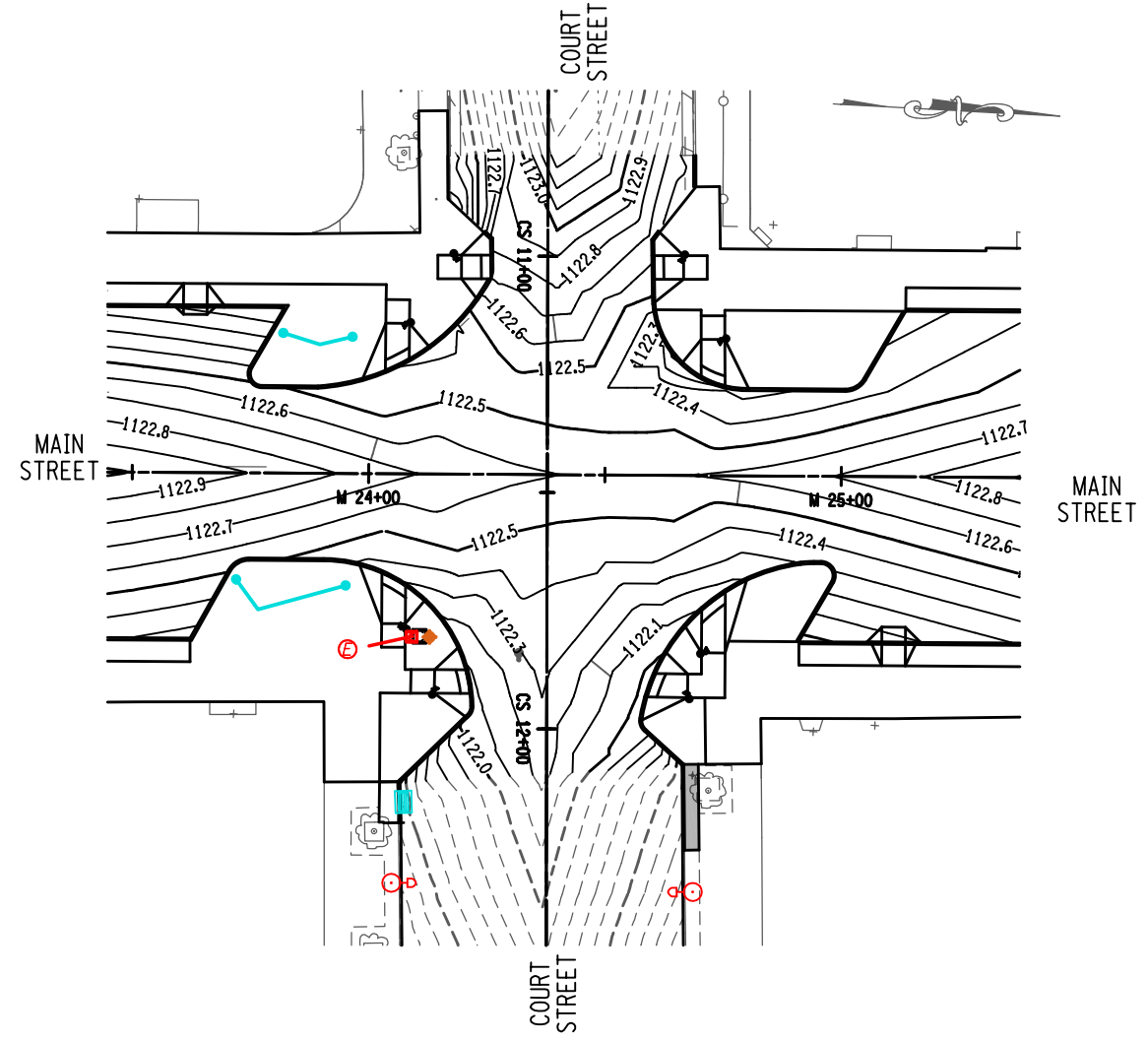
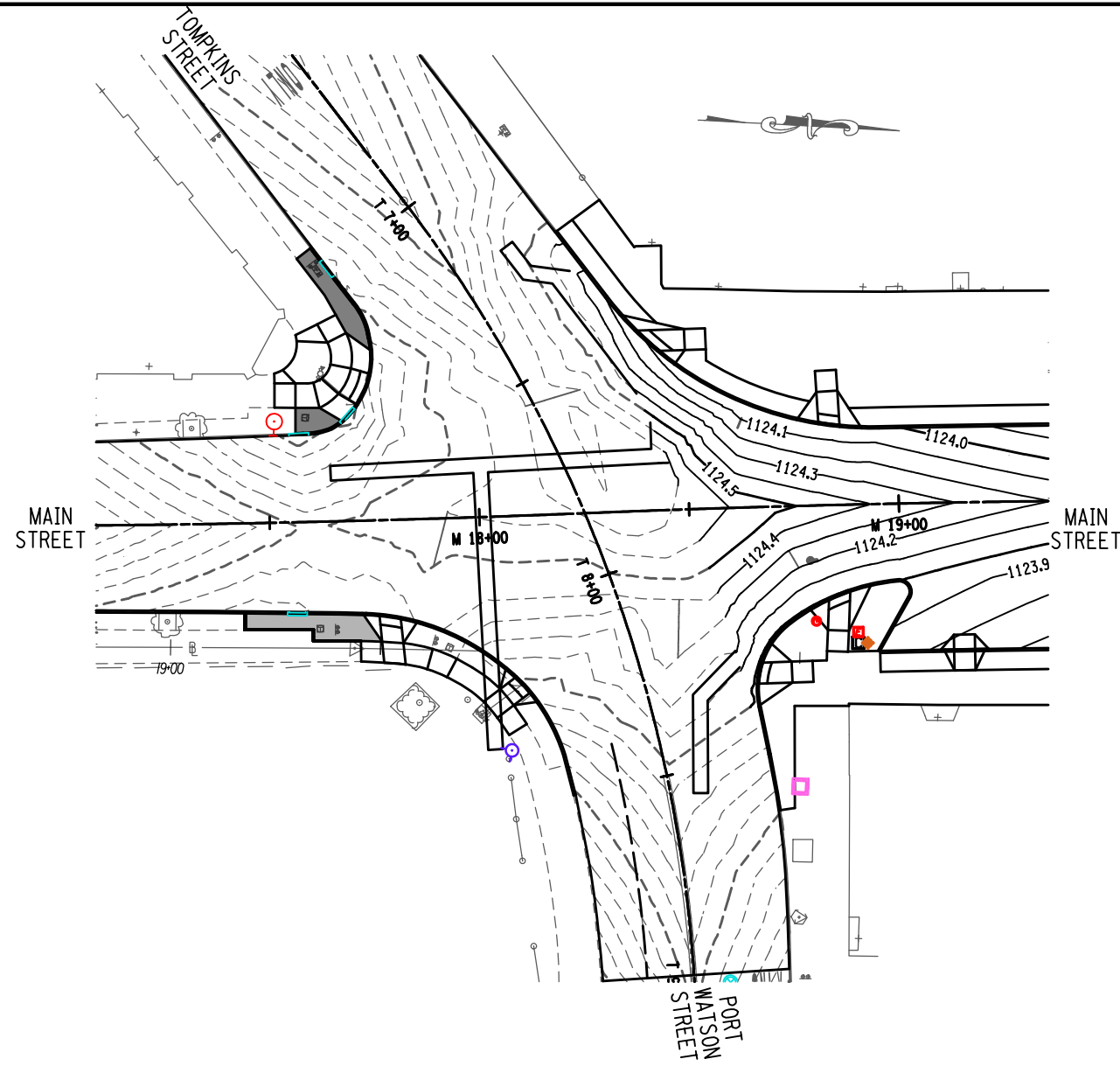
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PROJECT  
MAIN STREET UTILITY  
IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK

TITLE OF DRAWING  
MISCELLANEOUS DETAILS

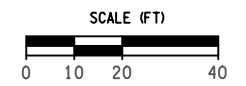
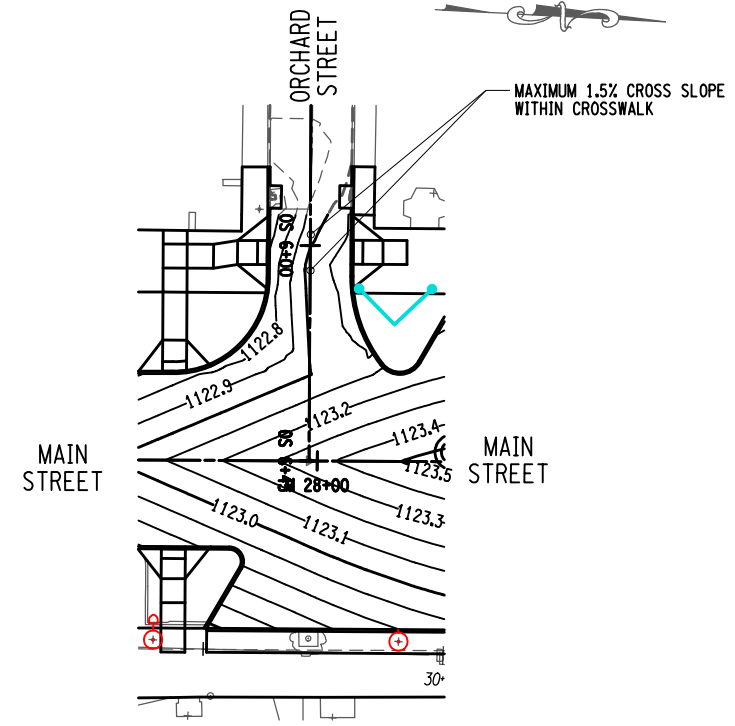
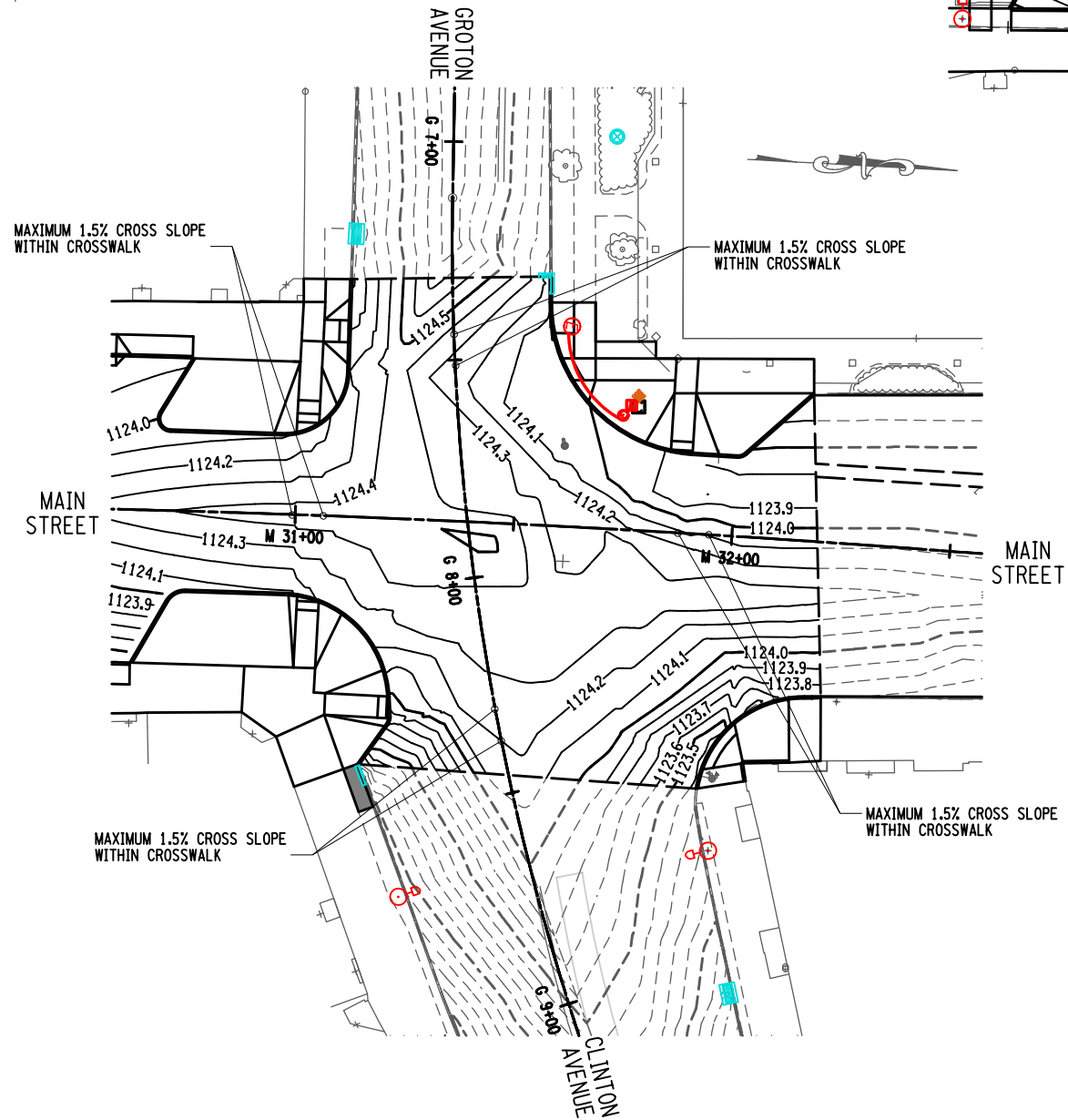
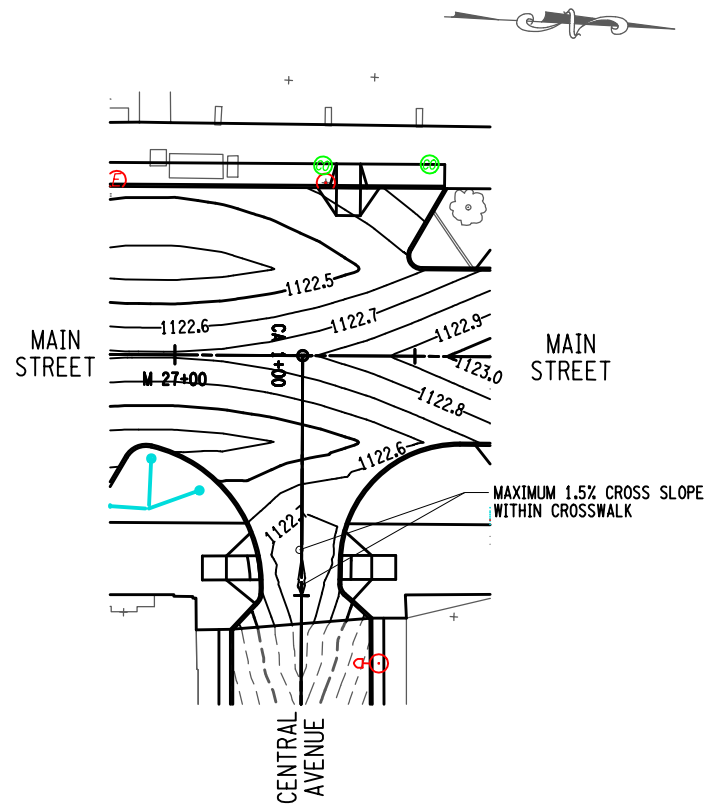
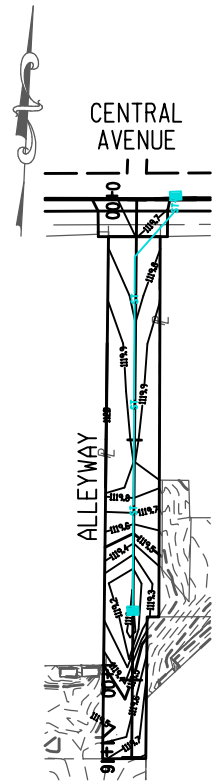
DRAWING NO.  
**MD-05**

SHEET 34 OF 169



PROJECT MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK		TITLE OF DRAWING INTERSECTION GRADING PLAN	
DRAWING NO. <b>IG-01</b>		SHEET 35 OF 169	
PROJECT NO. 200395		ISSUE DATE FEB. 2022	
PROJECT MANAGER T. FAULKNER		SCALE AS SHOWN	
DRAWN BY J. GONZALES		DATE FEB. 2022	
F.A. PROJECT NO. 200395		DESCRIPTION REV 1	
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PROJECT:  
 MAIN STREET UTILITY  
 IMPROVEMENT PROJECT  
 CITY OF CORTLAND  
 CORTLAND COUNTY, NEW YORK

TITLE OF DRAWING:  
 INTERSECTION GRADING PLAN

DRAWING NO.  
**IG-02**

SHEET 36 OF 169

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 PROFESSIONAL ENGINEER

EA PROJECT NO.  
 200395  
 PROJECT MANAGER  
 T. FAULKNER  
 DRAWN BY  
 J. GONZALES  
 SCALE  
 AS SHOWN

ISSUE DATE  
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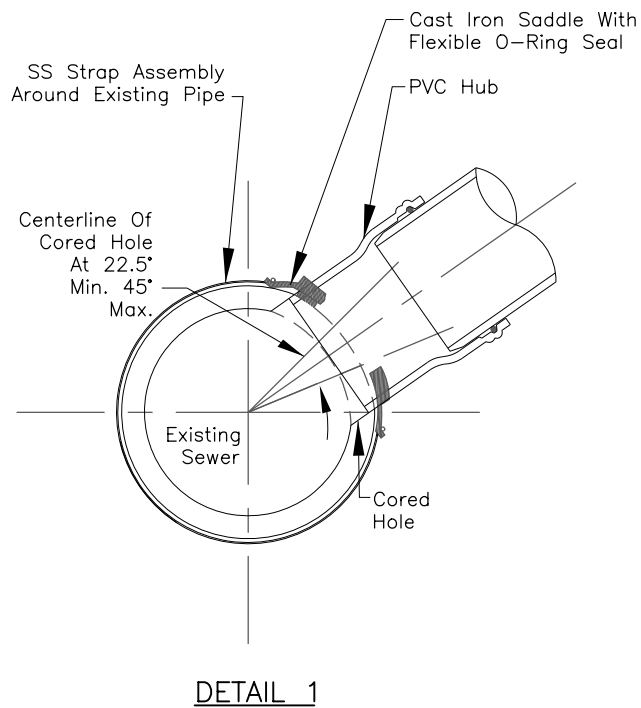
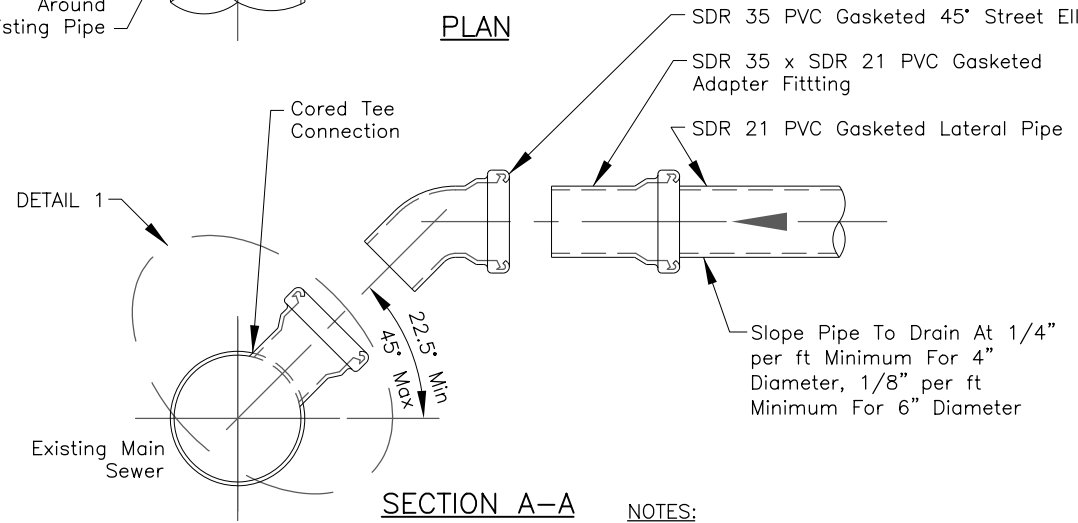
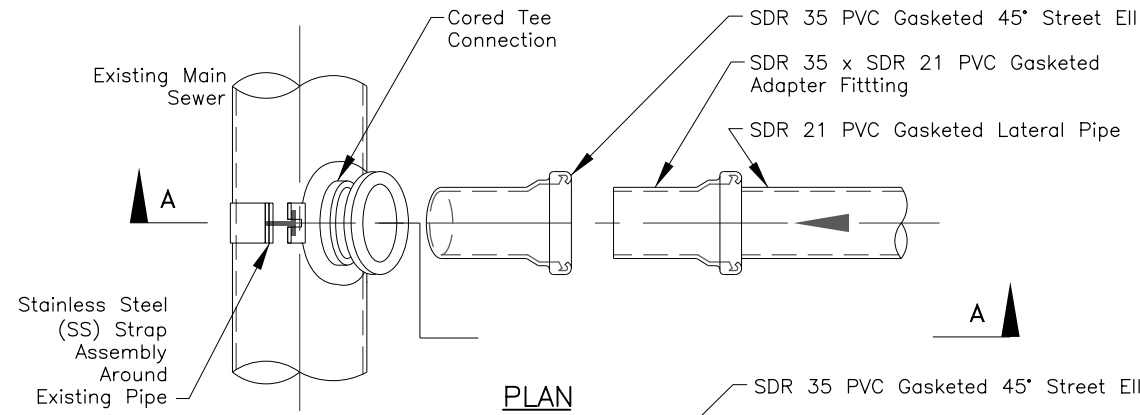
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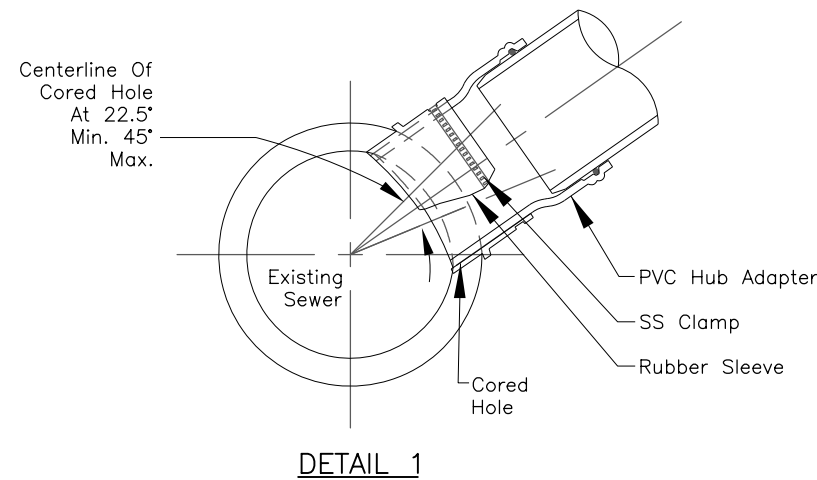
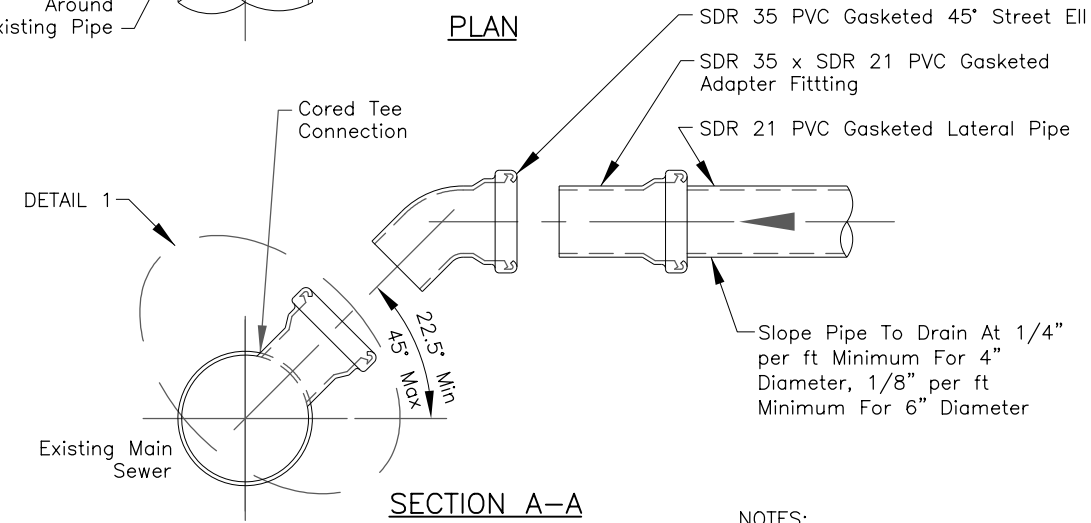
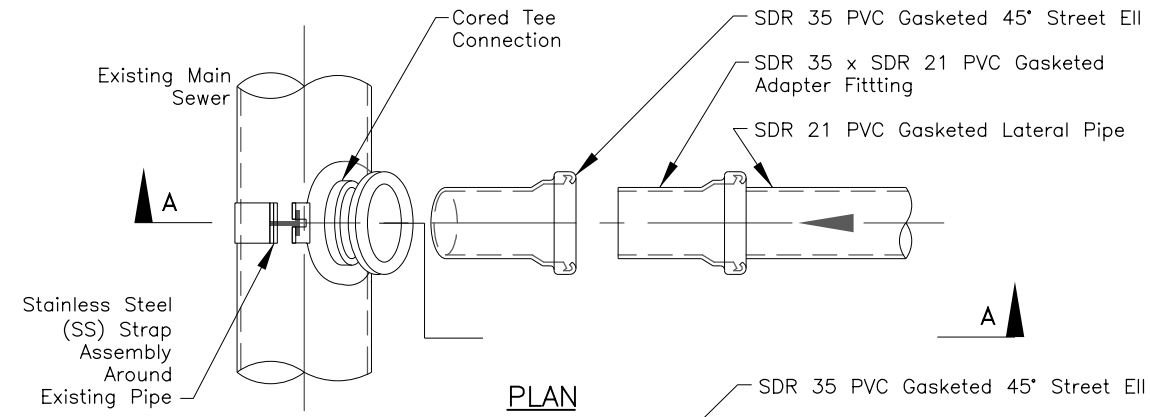
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**SADDLE TYPE CORED TEE CONNECTION  
TO EXISTING SEWER**

**NOTES:**

1. Lateral connection must be cored. Pneumatic devices or hammering knock-out methods are not acceptable for creating opening for new lateral pipe.
2. Size of cored opening shall be limited to one-half the nominal diameter of the mainline sewer.
3. Expose full circumference of main sewer for 12" along the length of the main. Core hole a minimum of 6" away from existing pipe hubs.
4. Take necessary precautions to prevent damage to the existing sewer, and to prevent debris from entering the sewer.
5. Thoroughly clean surface of existing pipe of foreign matter and loose particles prior to placement of saddle connection.
6. Saddle connection: Tee Sewer Saddle, Geneco by General Engineering Company, or approved equal.
7. Lateral connections must be witnessed by a representative of the District. Notify Pure Waters a minimum of 48 hours in advance of construction for inspection of the lateral connection. Telephone (585) 760-7600, Option 5.



INSERTA TEE SIZE	HOLE DIAMETER
4" (100mm)	4-1/2" (112.5mm)
6" (150mm)	6-1/2" (162.5mm)
8" (200mm)	8-3/4" (218.8mm)
10" (250mm)	10-7/8" (271.9mm)
12" (300mm)	12-7/8" (321.8mm)
15" (375mm)	15-13/16" (395.3mm)

**INSERT TYPE CORED TEE CONNECTION  
TO EXISTING SEWER**

**NOTES:**

1. New sanitary sewer laterals to be paid for under item 660.35010001, reestablish service connections sewer, complete.

**NOTES:**

1. Lateral connection must be cored. Pneumatic devices or hammering knock-out methods are not acceptable for creating opening for new lateral pipe.
2. Size of cored opening shall be limited to one-half the nominal diameter of the mainline sewer.
3. Expose face of pipe from crown to invert for 12" along the length of the main. Core hole a minimum of 6" away from existing pipe hubs.
4. Take necessary precautions to prevent damage to the existing sewer, and to prevent debris from entering the sewer.
5. Thoroughly clean surface of existing pipe of foreign matter and loose particles prior to placement of Tee connection.
6. Tee connection: Inserta Tee by Inserta Fittings Co., or approved equal.
7. Lateral connections must be witnessed by a representative of the District. Notify Pure Waters a minimum of 48 hours in advance of construction for inspection of the lateral connection. Telephone (585) 760-7600, Option 5.

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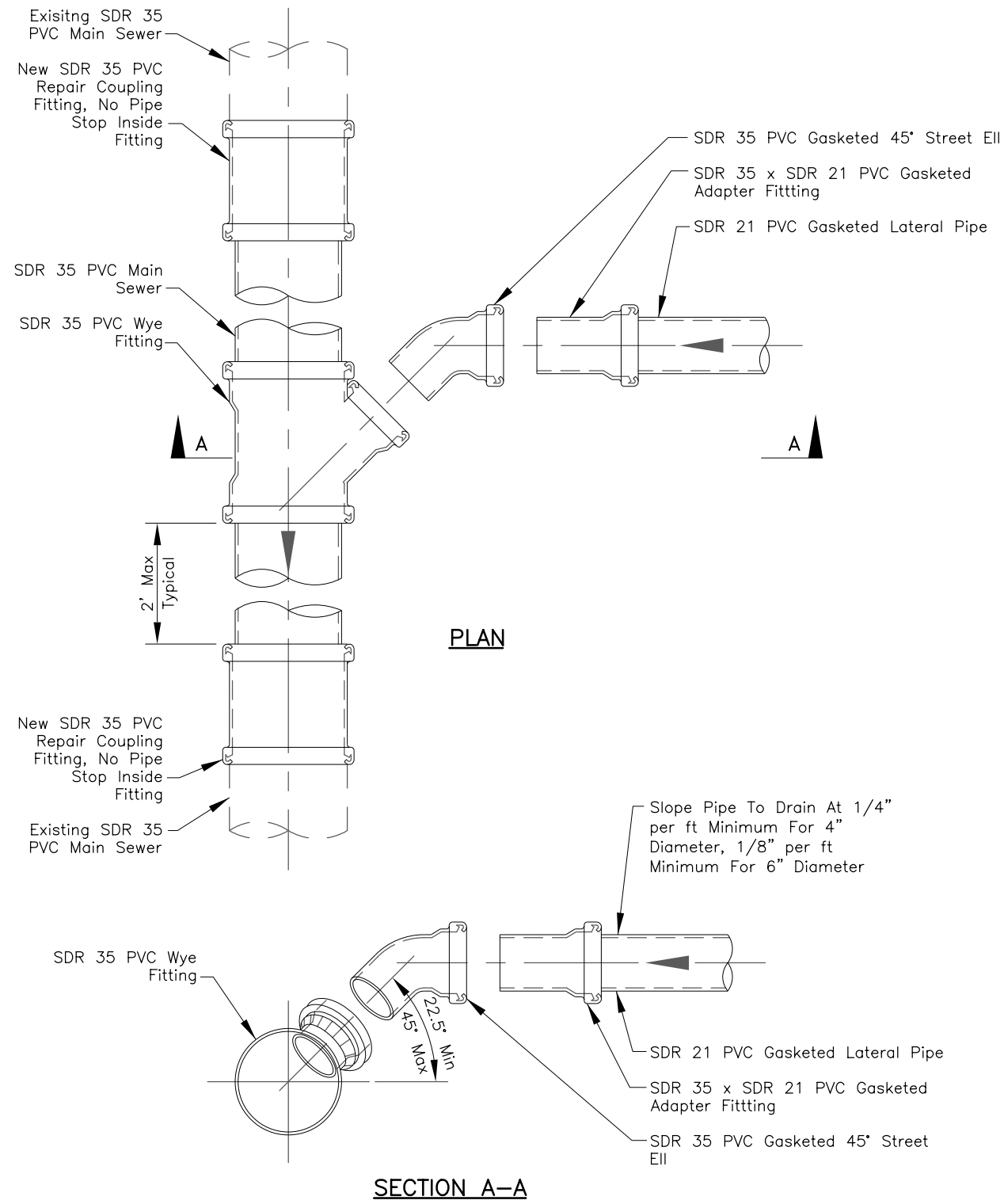
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115.6(3) requires that the seal of the  
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Surveyor, to alter on item in any way,  
be countersigned by the Professional  
Engineer or Professional Surveyor.  
The notation "Sealed by" followed by the  
signature and date of the Professional  
Engineer or Professional Surveyor is  
required for the seal to be valid for the  
alteration, and a specific description  
of the correction.

EA PROJECT NO.  
200395  
PROJECT MANAGER  
T. FAULKNER  
DRAWN BY  
T. DAVIS  
SCALE  
NTS  
ISSUE DATE  
FEB. 2022



PROJECT  
MAIN STREET UTILITY  
IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK  
TITLE OF DRAWING  
SANITARY SEWER DETAILS

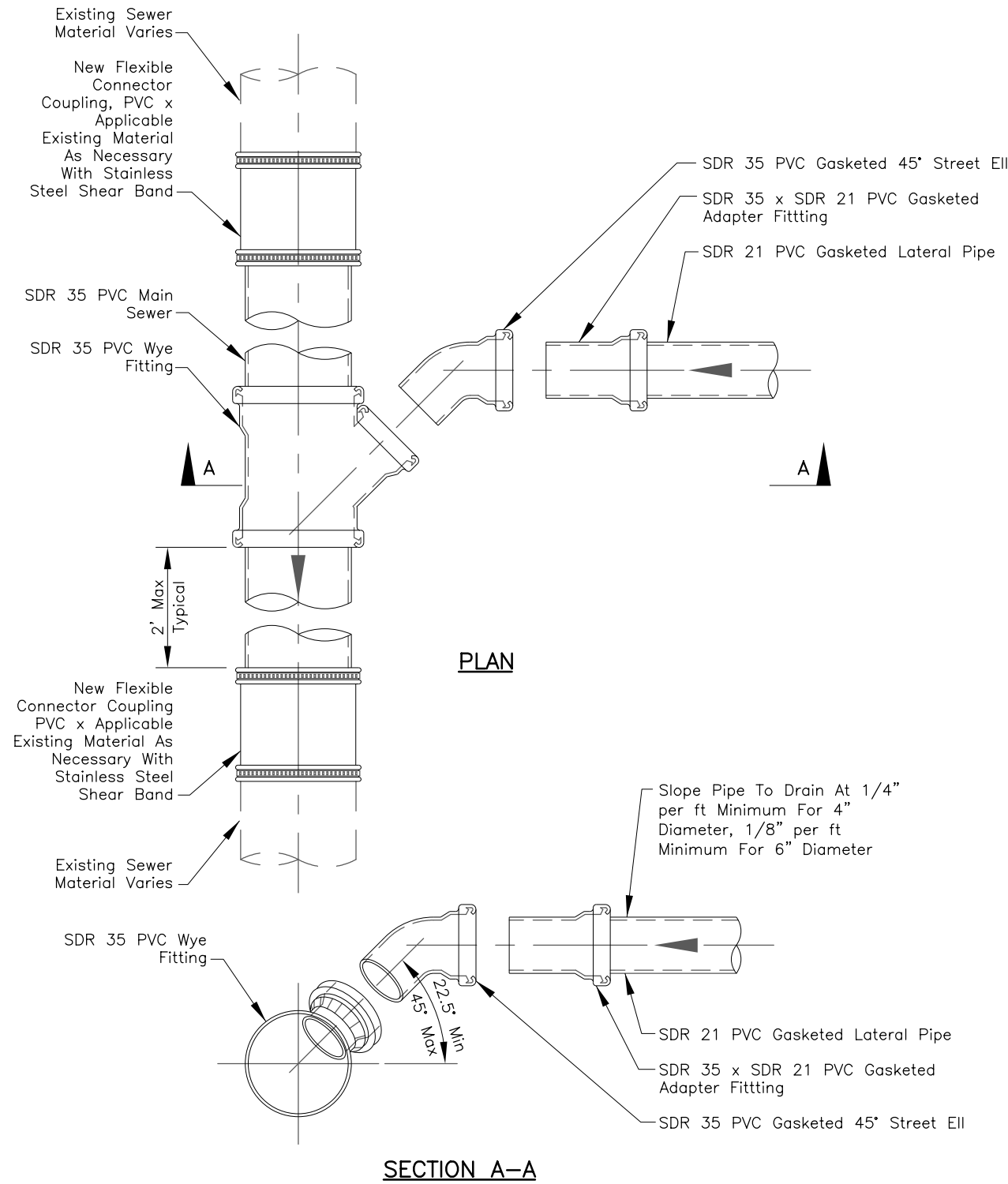
DRAWING NO.  
**SD-01**  
SHEET 37 OF 169



**NOTES:**

1. Main sewer pipe, lateral pipe, wye and other fittings shall be gasketed type fittings. Solvent weld joints are not allowed, except at cleanouts, see Figures 4.01-4.07.
2. See Figure 1.01 for pipe bedding and backfill.

**NEW LATERAL WYE CONNECTION TO EXISTING PVC SEWER**



**NOTES:**

1. Main sewer pipe, lateral pipe, wye and other fittings shall be gasketed type fittings. Solvent weld joints are not allowed, except at cleanouts, see Figures 4.01-4.07.
2. See Figure 1.01 for pipe bedding and backfill.
3. This detail does not apply to existing PVC sewers. See Figure 3.04 for connection to existing PVC Sewer.

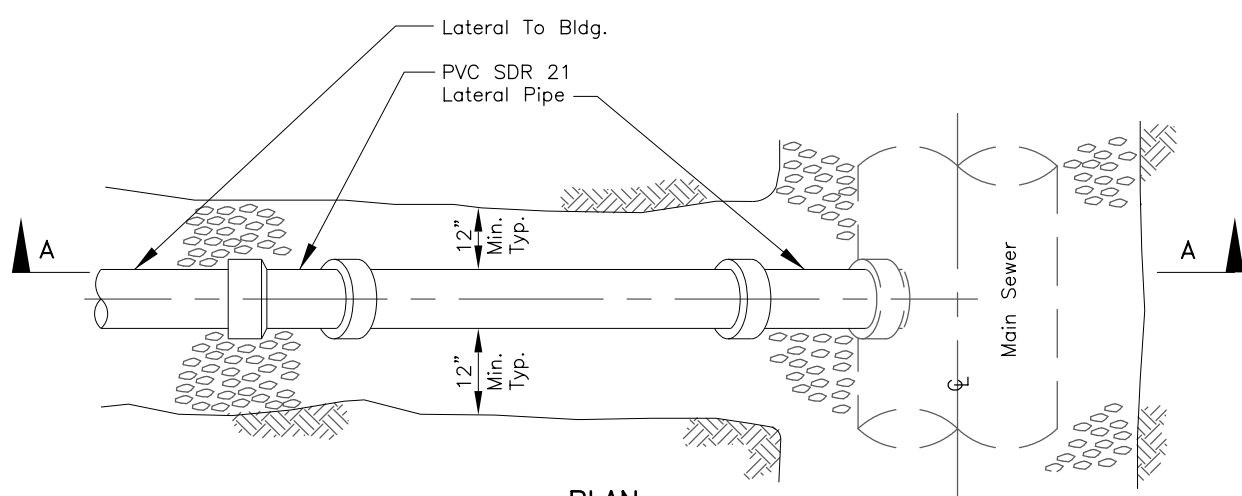
**NEW LATERAL WYE CONNECTION TO EXISTING NON-PVC SEWER**

**NOTES:**

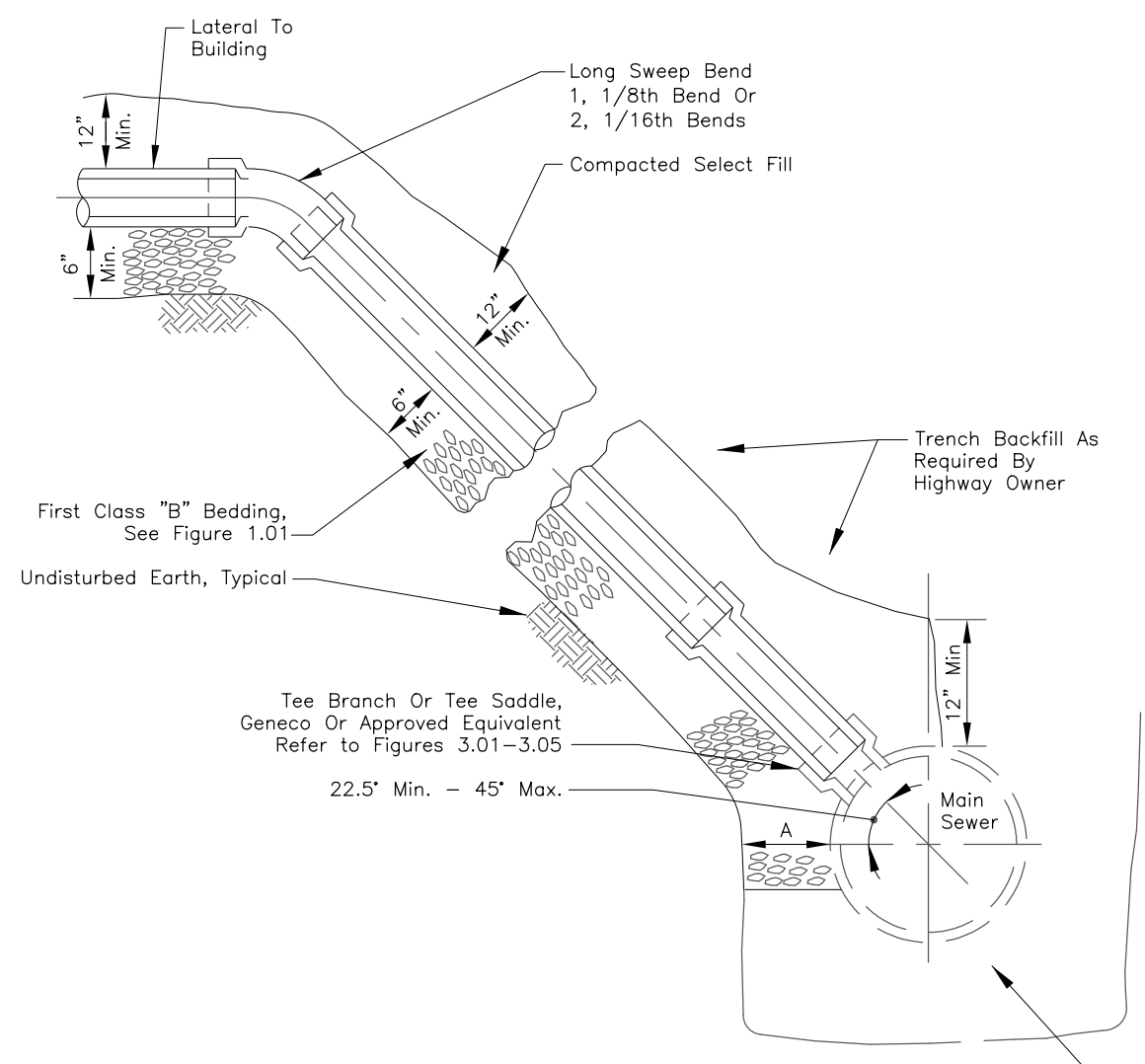
1. New sanitary sewer laterals to be paid for under item 660.35010001, reestablish service connections sewer, complete.

PROJECT <b>MAIN STREET UTILITY          IMPROVEMENT PROJECT          CITY OF CORTLAND          CORTLAND COUNTY, NEW YORK</b>	TITLE OF DRAWING <b>SANITARY SEWER DETAILS</b>	DRAWING NO. <b>SD-02</b>	SHEET 38 OF 169	PROJECT NO. <b>200395</b>	PROJECT MANAGER <b>T. FAULKNER</b>	ISSUE DATE <b>FEB. 2022</b>	
				DRAWN BY <b>T. DAVIS</b>	SCALE <b>NTS</b>	REV. 1 DESCRIPTION	
				FISHER ASSOCIATES WWW.FISHERASSOC.COM	STATE OF NEW YORK PETER HENT WOOD 082814 PROFESSIONAL ENGINEER	COPYRIGHT © 2022 FISHER ASSOCIATES P.E., L.S., L.A., D.P.C. New York State Education Law Section 1605(4) requires that the seal of the professional engineer or land surveyor, to alter on item in any way, the drawing or to add thereto, or to the notation, altered by, followed by the initials of the person making such alteration, and a specific description of the alteration.	DATE
				BY	DATE	DESCRIPTION	REV.
				7	6	5	4
				3	2	1	1
				2	1	1	1

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24-MAR-2022 17:49 \*TIME\*  
T.M.D

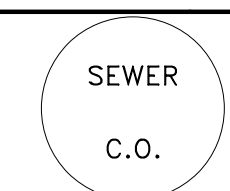


**PLAN**



**SECTION A-A**

**LATERAL RISER CONNECTION**

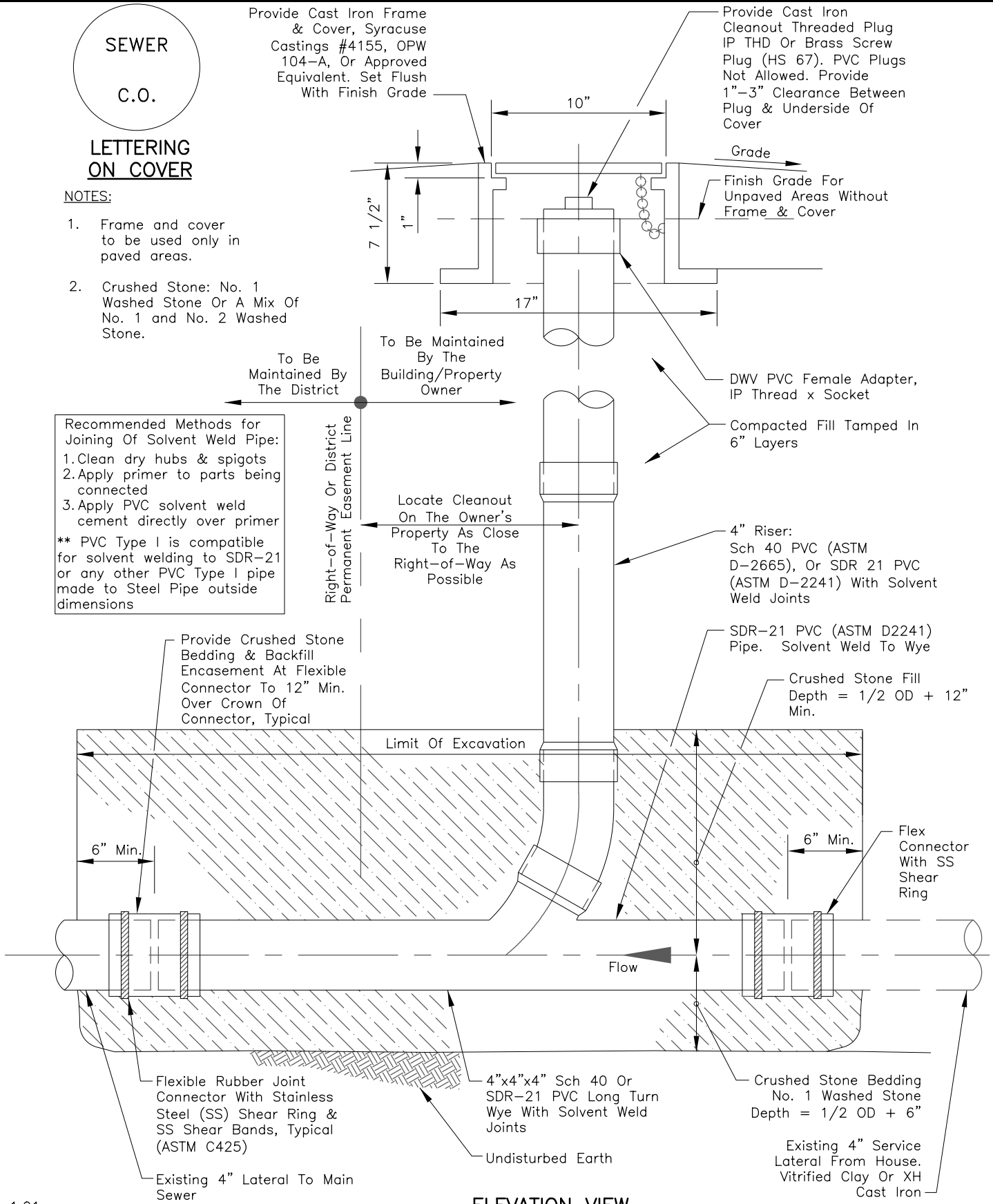


**LETTERING ON COVER**

**NOTES:**

1. Frame and cover to be used only in paved areas.
2. Crushed Stone: No. 1 Washed Stone Or A Mix Of No. 1 and No. 2 Washed Stone.

Recommended Methods for Joining Of Solvent Weld Pipe:  
1. Clean dry hubs & spigots  
2. Apply primer to parts being connected  
3. Apply PVC solvent weld cement directly over primer  
\*\* PVC Type I is compatible for solvent welding to SDR-21 or any other PVC Type I pipe made to Steel Pipe outside dimensions



**ELEVATION VIEW**

**RECOMMENDED CLEANOUT FOR CONNECTION TO EXISTING 4" LATERAL**

**NOTES:**

1. New sanitary sewer laterals to be paid for under item 660.35010001, reestablish service connections sewer, complete.

Provide Cast Iron Frame & Cover, Syracuse Castings #4155, OPW 104-A, Or Approved Equivalent. Set Flush With Finish Grade

Provide Cast Iron Cleanout Threaded Plug IP THD Or Brass Screw Plug (HS 67). PVC Plugs Not Allowed. Provide 1"-3" Clearance Between Plug & Underside Of Cover

Finish Grade For Unpaved Areas Without Frame & Cover

To Be Maintained By The District

To Be Maintained By The Building/Property Owner

Right-of-Way Or District Permanent Easement Line

Locate Cleanout On The Owner's Property As Close To The Right-of-Way As Possible

4" Riser: Sch 40 PVC (ASTM D-2665), Or SDR 21 PVC (ASTM D-2241) With Solvent Weld Joints

SDR-21 PVC (ASTM D2241) Pipe. Solvent Weld To Wye

Crushed Stone Fill Depth = 1/2 OD + 12" Min.

Provide Crushed Stone Bedding & Backfill Encasement At Flexible Connector To 12" Min. Over Crown Of Connector, Typical

Limit Of Excavation

Flex Connector With SS Shear Ring

Crushed Stone Bedding No. 1 Washed Stone Depth = 1/2 OD + 6"

Existing 4" Service Lateral From House. Vitrified Clay Or XH Cast Iron

Flexible Rubber Joint Connector With Stainless Steel (SS) Shear Ring & SS Shear Bands, Typical (ASTM C425)

Existing 4" Lateral To Main Sewer

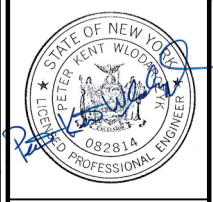
4"x4"x4" Sch 40 Or SDR-21 PVC Long Turn Wye With Solvent Weld Joints

Undisturbed Earth

REV	DESCRIPTION	DATE	BY
1			
2			
3			
4			
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6			
7			

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EA PROJECT NO. 200395  
PROJECT MANAGER T. FAULKNER  
DRAWN BY T. DAVIS  
SCALE NTS  
ISSUE DATE FEB. 2022



PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK  
TITLE OF DRAWING: SANITARY SEWER DETAILS

DRAWING NO. SD-03  
SHEET 39 OF 169



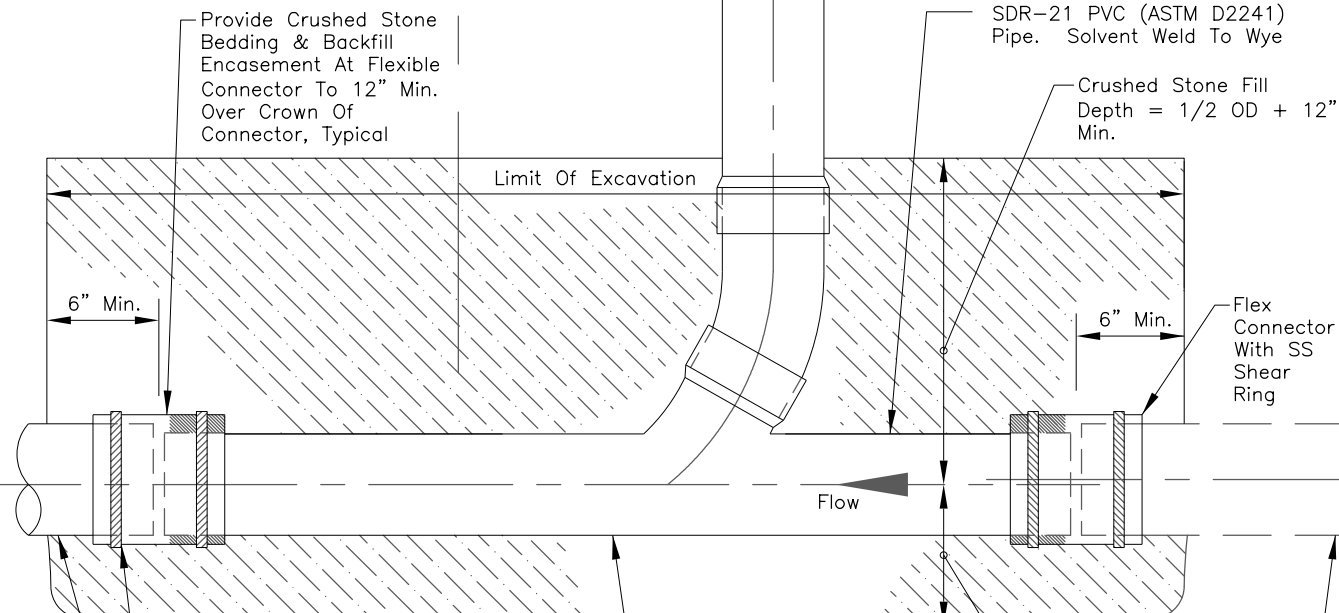
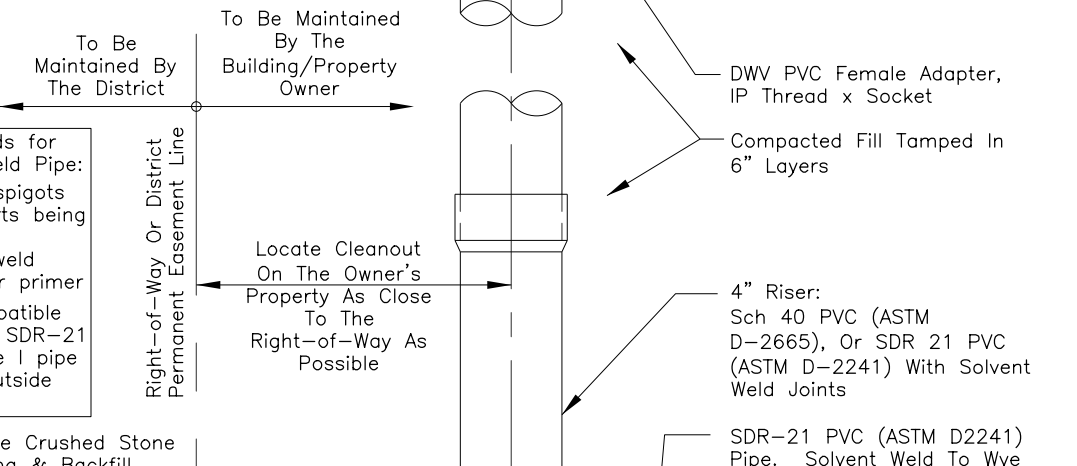
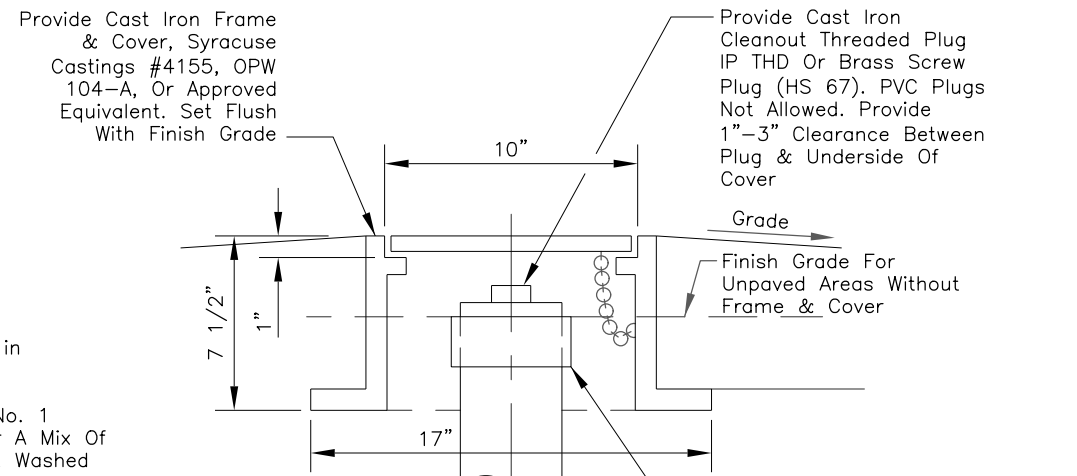
SEWER  
C.O.

**LETTERING ON COVER**

**NOTES:**

1. Frame and cover to be used only in paved areas.
2. Crushed Stone: No. 1 Washed Stone Or A Mix Of No. 1 and No. 2 Washed Stone.

Recommended Methods for Joining Of Solvent Weld Pipe:  
 1. Clean dry hubs & spigots  
 2. Apply primer to parts being connected  
 3. Apply PVC solvent weld cement directly over primer  
 \*\* PVC Type I is compatible for solvent welding to SDR-21 or any other PVC Type I pipe made to Steel Pipe outside dimensions



**ELEVATION VIEW**

**RECOMMENDED CLEANOUT FOR CONNECTION TO EXISTING 5" LATERAL**

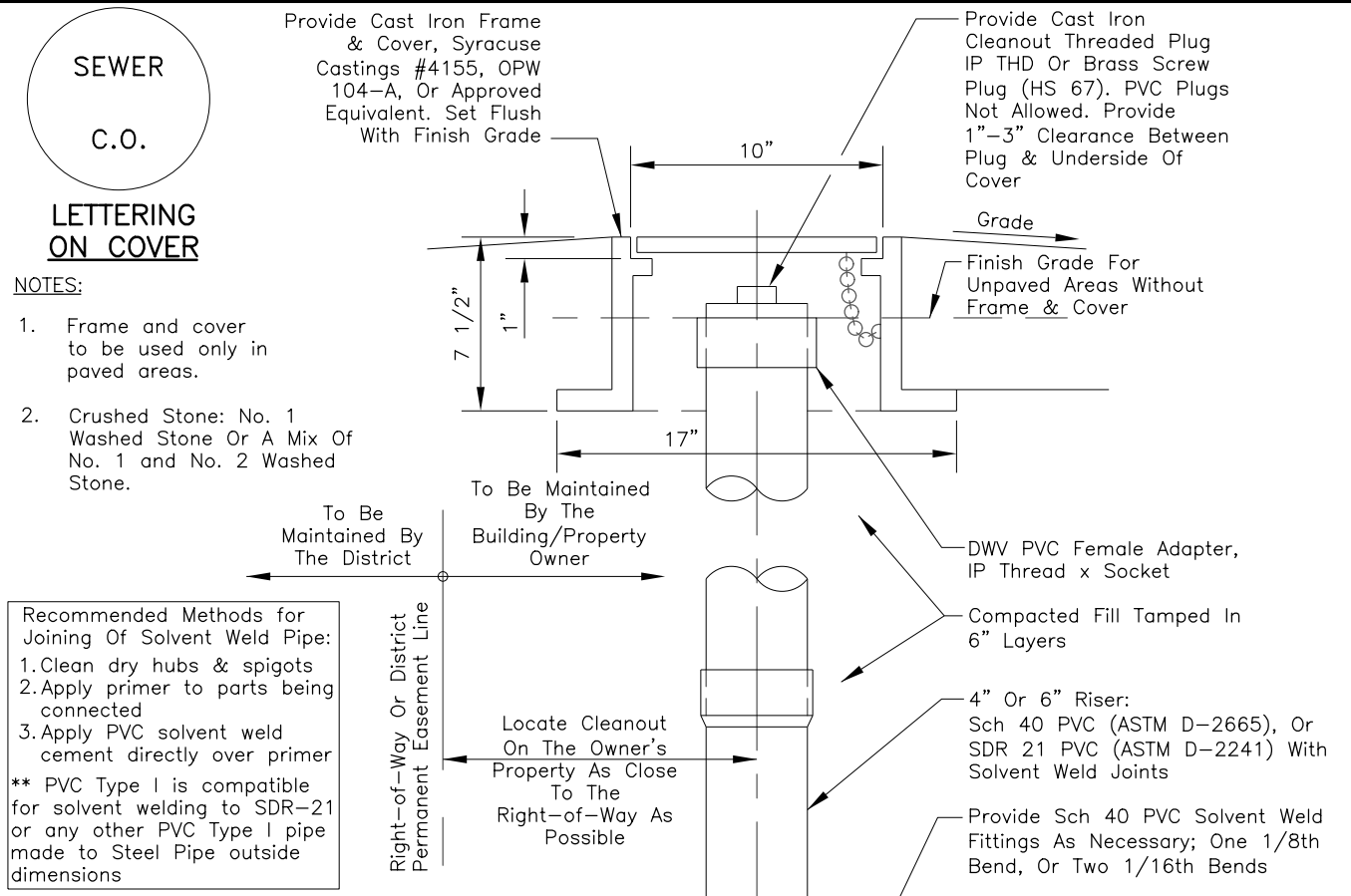
SEWER  
C.O.

**LETTERING ON COVER**

**NOTES:**

1. Frame and cover to be used only in paved areas.
2. Crushed Stone: No. 1 Washed Stone Or A Mix Of No. 1 and No. 2 Washed Stone.

Recommended Methods for Joining Of Solvent Weld Pipe:  
 1. Clean dry hubs & spigots  
 2. Apply primer to parts being connected  
 3. Apply PVC solvent weld cement directly over primer  
 \*\* PVC Type I is compatible for solvent welding to SDR-21 or any other PVC Type I pipe made to Steel Pipe outside dimensions



**ELEVATION VIEW**

**RECOMMENDED CLEANOUT FOR CONNECTION TO EXISTING 6" LATERAL**

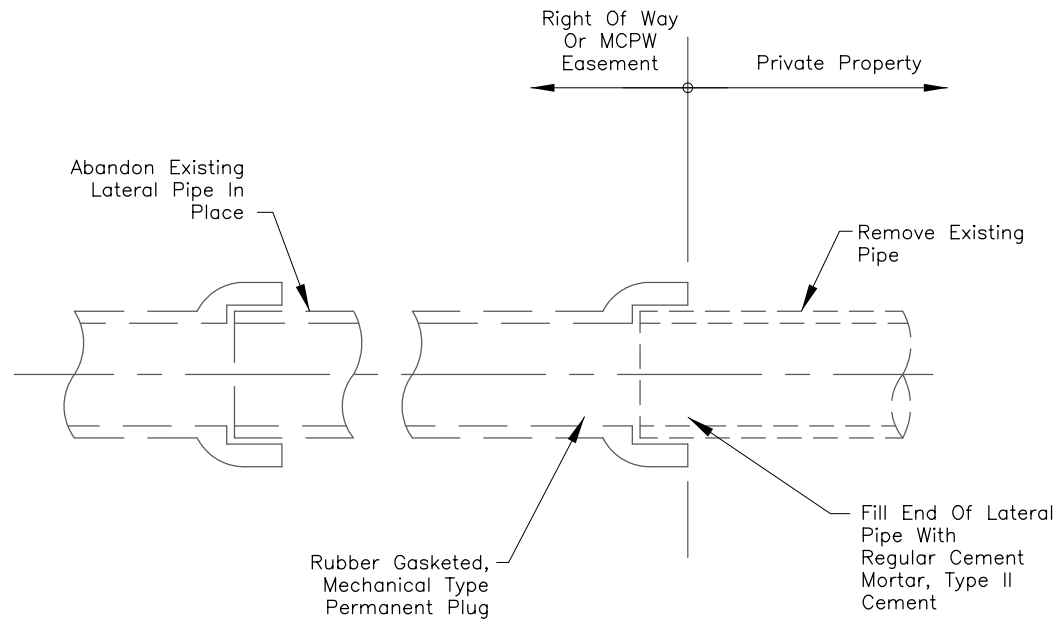
**NOTES:**

1. New sanitary sewer laterals to be paid for under item 660.35010001, reestablish service connections sewer, complete.

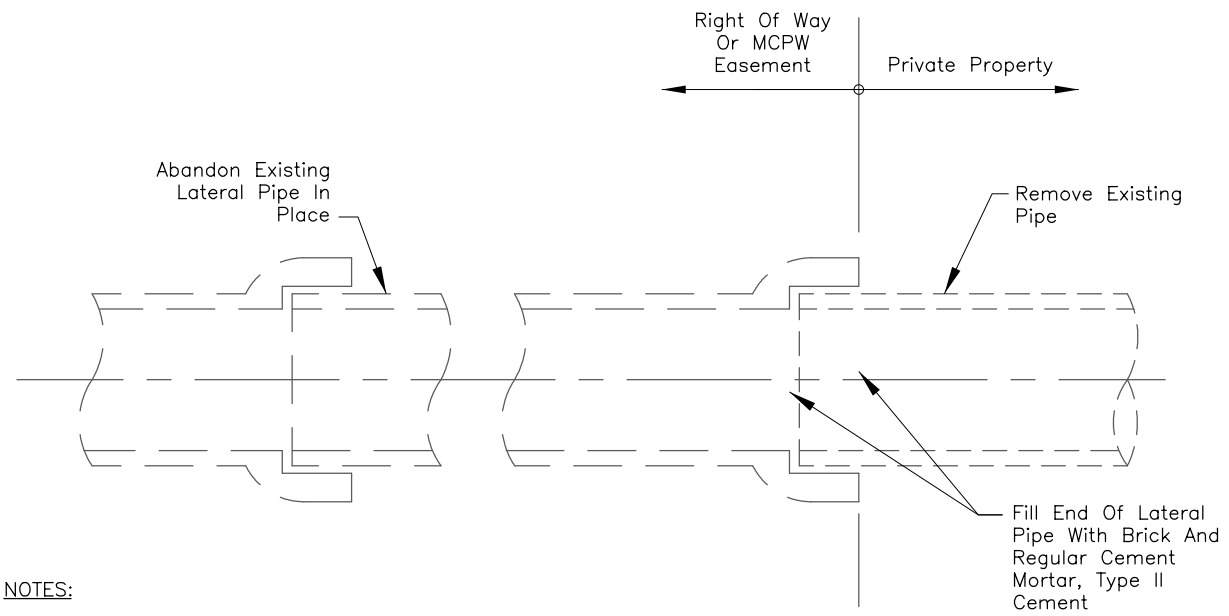
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PROJECT	MAIN STREET UTILITY IMPROVEMENT PROJECT	CITY OF CORTLAND	CORTLAND COUNTY, NEW YORK
TITLE OF DRAWING	SANITARY SEWER DETAILS		
DRAWING NO.	SD-04		
SHEET	40 OF 169		
DATE	REV	DESCRIPTION	BY
	7		
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	4		
	3		
	2		
	1		

PROJECT NO. 200395  
 PROJECT MANAGER T. FAULKNER  
 DRAWN BY T. DAVIS  
 SCALE NTS  
 ISSUE DATE FEB. 2022  
 FISHER ASSOCIATES  
 WWW.FISHERASSOC.COM  
 STATE OF NEW YORK  
 PROFESSIONAL ENGINEER  
 082814



**LATERAL ABANDONMENT FOR PIPE  
DIAMETER OF 6" OR LESS**



**LATERAL ABANDONMENT FOR PIPE  
DIAMETER GREATER THAN 6"**

**LATERAL  
ABANDONMENT DETAIL**

**NOTES:**

1. Lateral Abandonment must be witnessed by a representative of the District. Notify Pure Waters a minimum of 48 hours in advance of construction for inspection of the lateral abandonment. Telephone (585) 760-7600, Option 5.
2. Brick for plug: ASTM C-32, Grade SS.

**NOTES:**

1. New sanitary sewer laterals to be paid for under item 660.35010001, reestablish service connections sewer, complete.

200395\_sph\_upd\_sd-05.dgn  
24-MAR-2022 17:49 \*TIME\*  
T.mD

REV	DESCRIPTION	DATE	BY
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practice of the profession.

**EA PROJECT NO.**  
200395  
**PROJECT MANAGER**  
T. FAULKNER  
**DRAWN BY**  
T. DAVIS  
**SCALE**  
NTS  
**ISSUE DATE**  
FEB. 2022



**PROJECT**  
MAIN STREET UTILITY  
IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK  
**TITLE OF DRAWING**  
SANITARY SEWER DETAILS

**DRAWING NO.**  
**SD-05**  
SHEET 41 OF 169

DRAINAGE REMOVAL TABLE							
REMOVAL NUMBER	STATION (APPROXIMATE)	SIDE	DESCRIPTION	QUANTITIES			
				TOTALS			
				CONTROLLED LOW STRENGTH MATERIAL (CY) 204.01	TRENCH AND CULVERT EXC. (CY) 206.0201	SELECT GRANULAR FILL (CY) 203.07	SHIELDS AND SHORING (SF) ITEM 552.17
DR 1-1	M 18+43 TO M 18+52	RT & LT	REMOVE INLET AND APPROX. 37' OF PIPE. (PLUG PIPE AT MANHOLE STA. M 18+43 RT)		46.8	46.8	577.0
DR 1-2	M 18+61 TO M 18+71	LT	REMOVE INLET AND APPROX. 15' OF 12" CLAY PIPE. (ASSUME 50% OF THE EXISTING DRAINAGE IS OUTSIDE THE TRENCH LIMITS FOR THE NEW DRAINAGE)		15.4	15.4	60.0
DR 1-3	M 18+72 TO M 19+64	LT	REMOVE INLET AND APPROX. 93' OF 12" SICPP PIPE.		64.8	64.8	827.0
DR 2-1	M 21+49 TO M 22+59	LT	REMOVE TWO INLETS AND APPROX. 107' OF 16" CLAY PIPE.		45.9	45.9	0.0
DR 2-2	M 22+60 TO M 23+06	LT	REMOVE TWO INLETS AND APPROX. 44' OF 16" CLAY PIPE.		28.9	28.9	0.0
DR 2-3	M 23+06 TO M 23+87	LT	REMOVE INLET AND APPROX. 76' OF 16" CLAY PIPE. (ASSUME THE EXISTING INLET IS INSIDE THE TRENCH LIMITS FOR THE NEW DRAINAGE)		32.8	32.8	0.0
DR 2-4	M 23+86 TO M 24+18	LT	REMOVE TWO INLETS AND APPROX. 29' OF 24" CMP PIPE. (ASSUME ONE OF THE EXISTING INLETS IS INSIDE THE TRENCH LIMITS FOR THE NEW DRAINAGE)		30.3	30.3	0.0
DR 2-5	CS 10+04 TO CS 10+44	LT	ABANDON IN PLACE APPROX. 40' OF 12" SICPP PIPE.	1	0.0	0.0	0.0
DR 2-6	M 24+18 TO M 24+20	LT	REMOVE APPROX. 9' OF 12" SICPP PIPE (ASSUME 25% OF THE EXISTING DRAINAGE IS INSIDE THE TRENCH LIMITS FOR THE NEW DRAINAGE)		4.0	4.0	0.0
DR 2-7	M 24+21 TO M 24+29	LT & RT	REMOVE INLET AND APPROX. 44' OF 27" CMP PIPE.		50.9	50.9	454.0
DR 2-8	M 24+44 TO M 24+67	LT	REMOVE APPROX. 33' OF PIPE. (ASSUME 25% OF THE EXISTING DRAINAGE IS INSIDE THE TRENCH LIMITS FOR THE NEW DRAINAGE)		30.7	30.7	369.0
DR 2-9	M 24+69 TO M 24+89	LT	REMOVE APPROX. 20' OF 16" CLAY PIPE.		8.4	8.4	0.0
DR 2-10	CS 11+75 TO CS 12+62	RT	REMOVE STRUCTURE AND APPROX. 33' OF 20" CLAY PIPE AND ABANDON REMAINING 52' OF PIPE (ASSUME STRUCTURE IS INSIDE THE TRENCH LIMITS FOR THE NEW DRAINAGE)	4	26.4	26.4	0.0
DR 2-11	CS 11+89 TO CS 11+94	LT	REMOVE STRUCTURE AND APPROX. (ASSUME STRUCTURE IS INSIDE THE TRENCH LIMITS FOR THE NEW DRAINAGE)		0.0	0.0	0.0
DR 2-12	CS 11+94 TO CS 11+78	LT	REMOVE APPROX. 29' OF 12" CMP PIPE. (ASSUME 100 % WITHIN NEW TRENCH)		0.0	0.0	0.0
DR 2-13	CS 11+94 TO CS 14+08	LT	REMOVE APPROX. 11' OF 24" CMP PIPE (ASSUME 100 % WITHIN NEW TRENCH)		0.0	0.0	0.0
DR 3-1	M 24+91 TO M 25+43	LT	REMOVE TWO INLET AND APPROX. 43' OF 16" CLAY PIPE.		24.1	24.1	0.0
DR 3-2	M 25+45 TO M 27+20	LT	REMOVE INLET AND APPROX. 171' OF 16" CLAY PIPE.		73.2	73.2	0.0
DR 3-3	M 27+21 TO M 27+87	LT	REMOVE TWO INLETS APPROX. 62' OF PIPE.		21.9	33.0	0.0
DR 3-4	OS 5+90 TO OS 6+16	RT	REMOVE INLET AND APPROX. 22' OF 12" CLAY PIPE. (ASSUME INLET IS INSIDE THE TRENCH LIMITS FOR THE NEW DRAINAGE)		6.7	6.7	0.0
DR 3-5	OS 5+90 TO OS 6+10	LT	REMOVE INLET AND APPROX. 22' OF 12" PVC PIPE. (ASSUME INLET IS WITHIN THE TRENCH LIMITS FOR THE NEW DRAINAGE)		6.8	6.8	0.0
DR 3-6	M 27+89 TO M 29+15	LT	REMOVE INLET AND APPROX. 124' OF 16" OF CLAY PIPE.		0.0	0.0	0.0
DR 3-7	M 29+15 TO M 30+37	LT	REMOVE APPROX. 120' OF 12" CONC PIPE AND MANHOLE.		67.6	67.6	0.0
DR 3-8	M 24+94 TO M 25+85	RT	REMOVE INLET AND APPROX. 87' OF 12" CMP PIPE (ASSUME 100% OF THE EXISTING DRAINAGE PIPE AND THE INLET IS INSIDE THE TRENCH LIMITS FOR THE NEW DRAINAGE)		0.0	0.0	0.0
DR 3-9	M 25+85 TO M 27+65	RT	REMOVE INLET AND APPROX. 175' OF 12" CMP PIPE. (ASSUME 100 % WITHIN NEW TRENCH)		0.0	0.0	0.0
DR 3-10	M 28+66 TO M 29+44	RT	REMOVE INLET AND APPROX. 75' OF UNKNOWN PIPE. (ASSUME 75% OF THE EXISTING DRAINAGE IS WITHIN THE TRENCH LIMITS FOR THE NEW DRAINAGE AND NO ADDITIONAL PAYMENT WILL BE MADE FOR THE REMOVAL)		9.8	9.8	0.0
DR 3-11	M 25+78	LT	REMOVE INLET.		4.7	4.7	0.0
DR 3-12	M 28+18	LT	REMOVE INLET.		4.8	4.8	0.0
DR 4-1	M 31+61 TO M 31+92	RT & LT	REMOVE APPROX. 32' OF 12" CLAY PIPE. (ASSUME 100% OF THE EXISTING DRAINAGE IS INSIDE THE TRENCH LIMITS FOR THE NEW DRAINAGE)		0.0	0.0	0.0
DR 4-2	M 31+93 TO M 32+91	LT	REMOVE INLET AND APPROX. 95' OF 12" CMP PIPE.		22.7	22.7	0.0
DR 4-3	M 30+31 TO M 30+82	RT	REMOVE APPROX. 47' OF 8" CLAY PIPE, INLET AND MANHOLE.		27.0	27.0	0.0

7	6	5	4	3	2	1
					FC3 DRAINAGE REVISIONS	DRAINAGE REVISIONS
						DESCRIPTION
						DATE
						BY
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EA PROJECT NO. 200395 PROJECT MANAGER T. FAULKNER DRAWN BY T. DAVIS SCALE AS SHOWN ISSUE DATE FEB. 2022						
PROJECT MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK TITLE OF DRAWING DRAINAGE TABLES DRAWING NO. <b>DT-01</b> SHEET 42F2 OF 171						

UNDERDRAIN TABLE

ITEM 605.1702 - OPTIONAL UNDERDRAIN, 6 INCH DIAMETER  
ITEM 206.0201 - TRENCH AND CULVERT EXCAVATION  
ITEM 605.0901 - UNDERDRAIN FILTER, TYPE I

FROM STATION	TO STATION	SIDE	DRAIN TO	ITEM 605.1702 (LF)	ITEM 206.0201 (CY)	ITEM 605.0901 (CY)	REMARKS
M 18+21	M 18+56	LT	D1-1	55	4.6	4.6	
M 18+64	M 19+71	LT	M1-5				SEE DRAINAGE TABLE
M 19+95	M 20+20	LT	D1-7	30	2.5	2.5	
M 20+20	M 21+10	LT	D2-2				SEE DRAINAGE TABLE
M 21+10	M 23+08	LT	D2-5	200	16.7	16.7	
M 22+71	M 23+54	LT	D2-7				SEE DRAINAGE TABLE
M 23+54	M 24+19	LT	D2-9	88	7.3	7.3	
M 24+61	M 24+82	LT	D2-25				SEE DRAINAGE TABLE
M 24+82	M 25+15	LT	D2-6	40	3.3	3.3	
M 25+15	M 25+47	LT	D3-14				SEE DRAINAGE TABLE
M 24+47	M 26+93	LT	D3-4				SEE DRAINAGE TABLE
M 26+93	M 27+30	LT	D3-5				SEE DRAINAGE TABLE
M 27+30	M 27+87	LT	D3-8				SEE DRAINAGE TABLE
M 28+06	M 28+30	LT	D3-10	60	5.0	5.0	
M 28+30	M 29+27	LT	D3-12				SEE DRAINAGE TABLE
M 29+27	M 29+60	LT	M3-3				SEE DRAINAGE TABLE
M 29+60	M 30+02	LT	M3-3				SEE DRAINAGE TABLE
M 30+02	M 31+11	LT	D4-1	160	13.3	13.3	
M 18+65	M 19+67	RT	D1-4	130	10.8	10.8	
M 19+67	M 20+93	RT	D2-1				SEE DRAINAGE TABLE
M 20+93	M 22+45	RT	D2-27				SEE DRAINAGE TABLE
M 22+45	M 24+42	RT	M2-15				SEE DRAINAGE TABLE
M 24+66	M 24+96	RT	D2-8	95	7.9	7.9	
M 24+96	M 27+13	RT	D3-6				SEE DRAINAGE TABLE
M 27+40	M 27+81	RT	D3-7	95	7.9	7.9	
M 27+81	M 29+34	RT	D3-11				SEE DRAINAGE TABLE
M 29+34	M 30+26	RT	D4-2				SEE DRAINAGE TABLE
M 30+26	M 31+22	RT	D4-2	100	8.3	8.3	
M 19+75	M 19+72	LT	M1-5				SEE DRAINAGE TABLE
M 27+90	M 27+87	LT	D3-8				SEE DRAINAGE TABLE
CS 9+63	CS 10+21	RT	D2-12				SEE DRAINAGE TABLE
CS 10+21	CS 10+83	RT	D2-13				SEE DRAINAGE TABLE
CS 10+83	M 24+19	RT	D2-9				SEE DRAINAGE TABLE
CS 10+01	CS 10+46	LT	D2-23	45	3.8	3.8	
CS 10+46	CS 10+81	LT	D2-24				SEE DRAINAGE TABLE
CS 10+81	M 24+62	LT	D2-25				SEE DRAINAGE TABLE
TOTALS				1098	92	92	

ALTERING DRAINAGE STRUCTURES, LEACHING BASINS AND MANHOLES

ITEM 604.070401 - ALTERING DRAINAGE STRUCTURES, LEACHING BASINS AND MANHOLES - TYPE 1

STATION	OFFSET	SIDE	ITEM 604.070401 (EA)	DESCRIPTION
M 17+56	20.5	RT	1	STORM INLET
M 17+57	19.5	LT	1	STORM INLET
M 17+70	24.2	LT	1.0	STORM INLET
M 18+22	63.0	LT	1.0	STORM INLET
M 18+31	19.6	RT		TELECOMMUNICATION MANHOLE (BY OTHERS)
M 18+36	23.5	RT		TELECOMMUNICATION MANHOLE (BY OTHERS)
M 15+43	9.4	RT	1.0	SANITARY MANHOLE
M 18+43	3.2	RT	1.0	STORM MANHOLE
M 15+54	8.6	RT	1.0	SANITARY MANHOLE
M 19+08	37.4	LT		ELECTRIC MANHOLE (BY OTHERS)
M 19+79	3.0	RT	1.0	SANITARY MANHOLE
M 20+01	39.1	LT		ELECTRIC MANHOLE (BY OTHERS)
M 20+10	49.3	LT	1.0	UNKNOWN MANHOLE
M 21+02	35.0	RT		ELECTRIC MANHOLE (BY OTHERS)
M 23+96	37.2	RT		ELECTRIC MANHOLE (BY OTHERS)
M 24+07	39.1	LT		ELECTRIC MANHOLE (BY OTHERS)
M 24+13	24.8	RT		TELECOMMUNICATION MANHOLE (BY OTHERS)
M 24+18	24.9	RT		TELECOMMUNICATION MANHOLE (BY OTHERS)
M 24+37	2.1	RT	1.0	SANITARY MANHOLE
M 27+08	41.2	RT		ELECTRIC MANHOLE (BY OTHERS)
M 27+32	25.7	RT		TELECOMMUNICATION MANHOLE (BY OTHERS)
M 27+36	28.4	RT		TELECOMMUNICATION MANHOLE (BY OTHERS)
M 27+99	0.6	RT	1.0	SANITARY MANHOLE
M 28+58	35.5	RT		ELECTRIC MANHOLE (BY OTHERS)
M 28+72	36.2	LT		ELECTRIC MANHOLE (BY OTHERS)
M 30+53	1.0	RT		SANITARY MANHOLE
M 30+91	8.0	RT		TELECOMMUNICATION MANHOLE (BY OTHERS)
M 30+95	33.6	RT		ELECTRIC MANHOLE (BY OTHERS)
M 30+98	18.5	RT		TELECOMMUNICATION MANHOLE (BY OTHERS)
M 30+98	20.3	RT		TELECOMMUNICATION MANHOLE (BY OTHERS)
M 30+99	8.6	RT		TELECOMMUNICATION MANHOLE (BY OTHERS)
M 31+61	45.8	LT		ELECTRIC MANHOLE (BY OTHERS)
M 31+61	8.0	RT	1.0	STORM MANHOLE
M 31+90	36.4	RT		ELECTRIC MANHOLE (BY OTHERS)
M 33+48	25.8	RT		ELECTRIC MANHOLE (BY OTHERS)
M 34+98	23.1	LT	1.0	STORM INLET
UNASSIGNED			46.0	CONTINGENCY FOR CONSTRUCTION PHASING
TOTAL =			59	

DRAINAGE ITEM SUMMARY TABLE

ITEM NUMBER	DESCRIPTION
603.6001	REINFORCED CONCRETE PIPE CLASS III, 12 INCH DIAMETER
603.77	CONCRETE COLLARS
603.6708	REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE, CLASS HE III, 34" RISE, 53" SPAN
603.9812	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 12 INCH DIAMETER
603.9815	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 15 INCH DIAMETER
603.9818	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 18 INCH DIAMETER
603.9830	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 30 INCH DIAMETER
603.9836	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 36 INCH DIAMETER
604.500401	SPECIAL DRAINAGE STRUCTURE
604.9848	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 48 INCH DIAMETER
604.06000006	TRENCH DRAIN SYSTEM
604.070401	ALTERING DRAINAGE STRUCTURES, LEACHING BASINS AND MANHOLES (ADJUST FRAME AND GRATE TO GRADE)
604.070402	ALTERING DRAINAGE STRUCTURES, LEACHING BASINS AND MANHOLES (CORE WALL TO ACCEPT NEW PIPE)
604.300611	RECTANGULAR DRAINAGE STRUCTURE TYPE F FOR #11 WELDED FRAME
604.301911	RECTANGULAR DRAINAGE STRUCTURE TYPE S FOR #11 WELDED FRAME
604.302016	RECTANGULAR DRAINAGE STRUCTURE TYPE T FOR #16 WELDED FRAME
604.302122	RECTANGULAR DRAINAGE STRUCTURE TYPE U FOR #22 WELDED FRAME
604.4048	ROUND PRECAST CONCRETE MANHOLE TYPE 48
604.4060	ROUND PRECAST CONCRETE MANHOLE TYPE 60
605.4072	ROUND PRECAST CONCRETE MANHOLE TYPE 72
606.4096	ROUND PRECAST CONCRETE MANHOLE TYPE 96
605.1702	OPTIONAL UNDERDRAIN PIPE, 6 INCH DIAMETER
605.1705	OPTIONAL UNDERDRAIN PIPE, 12 INCH DIAMETER
605.98101518	SMOOTH INTERIOR PERFORATED CORRUGATED POLYETHYLENE UNDERDRAIN PIPE, 15 INCH DIAMETER
605.98101818	SMOOTH INTERIOR PERFORATED CORRUGATED POLYETHYLENE UNDERDRAIN PIPE, 18 INCH DIAMETER
655.1111	WELDED FRAME AND RETICULINE GRATE 11
655.1116	WELDED FRAME AND RETICULINE GRATE 16
655.1122	WELDED FRAME AND RETICULINE GRATE 22
655.1201	MANHOLE FRAME AND COVER

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EA PROJECT NO. 200395  
PROJECT MANAGER T. FAULKNER  
DRAWN BY T. DAVIS  
SCALE AS SHOWN  
ISSUE DATE FEB. 2022



PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK  
TITLE OF DRAWING: DRAINAGE TABLES

DRAWING NO. DT-02  
SHEET 43F1 OF 169

NO.	DATE	BY	DESCRIPTION
7			
6			
5			
4			
3			
2	4/13/22	JNT	FC3 DRAINAGE REVISIONS
1	4/13/22	JNT	REVISED ALTER TABLE
REV			

DRAINAGE STRUCTURE TABLE

INLET STR. NO. ID	STATION	OFFSET (FT)	SIDE	OUTLET STR. NO. ID	INLET STRUCTURE TYPE	INLET STRUCTURE ITEM NO.	FRAME & COVER (TYPE)	GRATE OR COVER ITEM NO.	TOP ELEV.	INVERT OUT	INVERT IN	PAY HEIGHT	PIPE DESCRIPTION	PIPE ITEM NO.	DESCRIPTION
D1-1	M 18+56.20	26.73	LT	D1-3	S	604.301911	11	655.1111	1124.07	(N)1120.2		6.54	12 SICPP	603.9812	
M1-2	M 18+59.64	18.12	LT	M1-9	MH	604.4048	48C	655.1201	1124.23	(E) VERIFY	(NW)1119.9 (SW) VERIFY				CONNECT TO EXISTING 24" PIPES, FIELD VERIFY EXISTING PIPE INVERTS, SIZE, AND MATERIAL
D1-3	M 18+64.52	22.60	LT	M1-2	U	604.302122	22	655.1122	1124.05	(SE)1119.92	(N) 1119.92 (S) 1120.17	6.80	12 SICPP	603.9812	
D1-4	M 19+67.68	33.23	RT	D2-1	S	604.301911	11	655.1111	1123.58	(N)1119.6		6.65	12 U-DRAIN	605.1705	
M1-5	M 19+71.86	27.98	LT	D1-3	MH	604.4072	72C	655.1201	1123.30	(S)1120.45	(SW) 1120.45 (W) 1120.45	5.52	12 U-DRAIN	605.1705	
D1-6	M 19+75.88	56.47	LT	M1-5		604.070302			1123.63	(E)1120.98	(N) 1121.03	5.32	12 U-DRAIN	605.1705	ALTER STRUCTURE TO ACCEPT NEW PIPE
D1-7	M 20+20.23	33.27	LT	D2-2	S	604.301911	11	655.1111	1123.12	(N)1119.75		6.04	12 U-DRAIN	605.1705	
D2-1	M 20+93.21	33.30	RT	D2-27	G	604.300711	11	655.1111	1123.41	(N)1119	(S) 1119.00 (W) 1119.00	7.08	15 U-DRAIN	605.98101518	
D2-27	M 22+45.00	35.00	RT	D2-3	G	604.300711	11	655.1111	1122.49	(S)1118.25	(N)1118.25	6.24	15 U-DRAIN	605.98101518	
D2-2	M 21+10.31	33.29	LT	D2-1	S	604.301911	11	655.1111	1123.05	(E)1119.33	(S) 1119.33	6.39	12 SICPP	603.9812	
D2-3	M 22+73.50	33.26	RT	M2-15	U	604.302122	22	655.1122	1122.72	(N)1118.12	(S) 1118.12	7.27	18 U-DRAIN	605.98101818	
D2-4	M 22+61.50	35.00	LT	D2-5	A	606.302122	3	655.1122	1122.20	(N)1118.6		6.27	12 SICPP	607.98101818	STRUCTURE NUMBER NOT USED
D2-5	M 23+08.38	32.90	LT	D2-7	MH	604.4048	48C	655.1201	1122.30	(N)1118.4	(S)1118.4	4.57	15 U-DRAIN	605.98101518	CONNECT TO EXISTING 8" PIPE TO THE WEST
D2-7	M 23+54.77	35.00	LT	D2-26	S	604.301911	11	655.1111	1122.11	(N)1118.19	(S) 1118.19	6.59	15 U-DRAIN	605.98101518	
D2-26	M 24+14.68	28.17	LT	D2-9	F	604.300611	11	655.1111	1122.36	(NW)1117.9	(S)1117.9	7.13	18 SICPP	603.9818	
D2-9	M 24+19.18	29.84	LT	M2-14	F	604.300611	11	655.1111	1122.50	(NE)1117.85	(SE) 1117.85 (W) 1118.01	7.32	18 SICPP	603.9818	
D2-10	CS 9+23.53	13.83	RT	D2-11		604.070302				(E) 1125.03			12 RC	603.6001	ALTER STRUCTURE TO ACCEPT NEW PIPE. FIELD VERIFY REQUIRED OUTLET ELEVATION.
D2-11	CS 9+63.02	21.94	RT	D2-12	S	604.301911	11	655.1111	1123.58	(E) 1119.5	(W) 1119.50	6.75	12 U-DRAIN	605.1705	
D2-12	CS 10+21.33	20.49	RT	D2-13	S	604.301911	11	655.1111	1122.90	(E)1118.9	(W) 1118.90	6.67	15 U-DRAIN	605.98101518	CONNECT TO EXISTING 12" PIPE TO THE WEST
D2-13	CS 10+83.67	18.86	RT	D2-9	T	604.302016	16	655.1116	1122.28	(E)1118.15	(W) 1118.25	6.80	15 U-DRAIN	605.98101518	
M2-14	M 24+41.86	17.06	LT	M2-15	MH	604.4096	96C	655.1201	1122.43	(E)1116.52	(SW)1117.65 (W)1116.52 (NW)1116.52	6.58	34x53 RCP	603.6708	
M2-15	M 24+42.43	30.01	RT	M2-16	MH	604.4096	96C	655.1201	1122.37	(E)1116.32	(S)1117.3 (W)1116.32	6.72	42 RCP	603.6010	
M2-16	M 24+42.66	43.17	RT	M2-17	MH	604.4072	72C	655.1201	1122.23	(E)1116.27	(W)1116.27	6.63			REPLACE MANHOLE ON EXISTING 42" CONCRETE PIPE. COST TO CONNECT PIPE INTO MANHOLE TO BE INCLUDED IN THE COST OF REPLACE DRAINAGE STRUCTURE AND CONNECT TO EXISTING PIPES. FIELD VERIFY EXISTING PIPE INVERTS, SIZE, AND MATERIAL
D2-18	CS 12+15.47	29.71	RT	M2-19	S	604.301911	11	655.1111	1121.48	(E)Verify	(S) Verify	6.43			EXISTING STRUCTURE TO REMAIN - NO WORK
M2-19	CS 12+62.66	19.91	RT	D8-4											
D2-20	CS 9+62.64	28.47	LT	D2-21		604.070302				(E)1123.54			12 RC	603.6001	ALTER STRUCTURE TO ACCEPT NEW PIPE. FIELD VERIFY REQUIRED OUTLET ELEVATION.
D2-21	CS 10+01.26	28.72	LT	M2-22	K	604.301111	11	655.1111	1123.24	(SE)1118	(W) 1119.20 (N) Field Verify	7.91	30 SICPP	603.983	CONNECT TO THE EXISTING 30" RCP TO THE NORTH. FIELD VERIFY EXISTING PIPE INVERTS, SIZE, AND MATERIAL

7	6	5	4	3	2	1	REV
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PROJECT NO. 200395  
PROJECT MANAGER T. FAULKNER  
DRAWN BY T. DAVIS  
SCALE AS SHOWN  
ISSUE DATE FEB. 2022



PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK  
TITLE OF DRAWING: DRAINAGE TABLES

DRAWING NO. DT-03  
SHEET 44F4 OF 171

DRAINAGE STRUCTURE TABLE (CONT.)

FIELD CHANGE SHEET  
THIS SHEET SUPERSEDES SHEET 45F3

Table with columns: INLET STR. NO. ID, STATION, OFFSET (FT), SIDE, OUTLET STR. NO. ID, INLET STRUCTURE TYPE, INLET STRUCTURE ITEM NO., FRAME & COVER (TYPE), GRATE OR COVER ITEM NO., TOP ELEV., INVERT OUT, INVERT IN, PAY HEIGHT, PIPE DESCRIPTION, PIPE ITEM NO., DESCRIPTION. Contains 20 rows of drainage structure data.

Revision table with columns: TRD, JNT, DATE, REV, DESCRIPTION. Shows revision history for drainage tables.

FA PROJECT NO. 200395  
PROJECT MANAGER T. FAULKNER  
DRAWING BY T. DAVIS  
SCALE AS SHOWN  
ISSUE DATE FEB. 2022



PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK  
TITLE OF DRAWING: DRAINAGE TABLES

DRAWING NO. DT-04

DRAINAGE STRUCTURE TABLE (CONT.)

INLET STR. NO. ID	STATION	OFFSET (FT)	SIDE	OUTLET STR. NO. ID	INLET STRUCTURE TYPE	INLET STRUCTURE ITEM NO.	FRAME & COVER (TYPE)	GRATE OR COVER ITEM NO.	TOP ELEV.	INVERT OUT	INVERT IN	PAY HEIGHT	PIPE DESCRIPTION	PIPE ITEM NO.	DESCRIPTION
D4-1	M 30+01.91	35.22	LT	M3-3	U	604.302122	22	655.1122	1123.40	(S)1119.14		6.93	12 U-DRAIN	605.1705	
D4-2	M 30+26.05	35.00	RT	D3-11	S	604.301911	11	655.1111	1123.26	(S)1119.24		6.69	12 U-DRAIN	605.1705	
M4-3	M 31+61.68	7.98	RT			604.070302			1124.27	(E)1115.64 (W)1117.67	(N) 1118.73				ALTER STRUCTURE TO ACCEPT NEW PIPE
D4-4	M 31+95.92	18.00	LT	M4-3	U	604.302122	22	655.1122	1123.68	(S)1118.92	(N)1118.92	7.43	12 SICPP	603.9812	
D4-5	M 32+94.03	16.87	LT	D4-4	S	604.301911	11	655.1111	1123.44	(S)1119.4		6.71	12 SICPP	603.9812	
D5-1															STRUCTURE NUMBER NOT USED
D5-2															STRUCTURE NUMBER NOT USED
D5-3															STRUCTURE NUMBER NOT USED
D5-4															STRUCTURE NUMBER NOT USED
D5-5	CA 5+17	16.25	RT			604.070302			1119.33	(E)1114.95 (W) 1115.2					ALTER STRUCTURE TO ACCEPT NEW PIPE
D5-6															STRUCTURE NUMBER NOT USED
D5-7	CA 5+15	102.00	RT	D5-8	S	604.301911	11	655.1111	1119.06	(N)1116.5		3.23	12 SICPP	603.9812	
D5-8	CA 5+16	57.00	RT	D5-5	TRENCH	604.06000006	TRENCH		1119.89 TO 1119.82	(N)1116.18	(S) 1116.18		12 SICPP	603.9812	24 FT LONG - 12" TRENCH DRAIN WITH VERTICAL OUTLET
D6-1															STRUCTURE NUMBER NOT USED
D6-2															STRUCTURE NUMBER NOT USED
M6-3															STRUCTURE NUMBER NOT USED
D7-1	CS 17+62.89	28.17	RT	M7-4	K	604.301111	11	655.1111	1118.66	(NE)VERIFY	(SE) VERIFY	6.73			REPLACE DRAINAGE STRUCTURE AND CONNECT TO EXISTING PIPES. FIELD VERIFY EXISTING PIPE INVERTS, SIZE, AND MATERIAL
D7-3	CS 17+61.89	28.61	LT	M7-5	B	604.300211	11	655.1111	1118.74	(E)1113.43	(W) 1113.53	7.98	30 SICPP	603.9830	FC 6 - INSTALL NEW DRAINAGE STRUCTURE AND PIPES VERIFY EXISTING ELEVATION OF PIPE TO REMAIN
D8-2	CS 13+43.06	28.41	RT	M8-4	U	604.302122	22	655.1122	1120.43	(N)1115.29	(S) 1115.99 (W) 1115.39	7.81			REPLACE DRAINAGE STRUCTURE AND CONNECT TO EXISTING PIPES.
D8-3	CS 14+10.43	29.82	LT	M8-6	B	604.300211	11	655.1111	1119.97	(E)1113.93	(W) 1114.0	8.71	30 SICPP	603.9830	FC 6 - INSTALL NEW DRAINAGE STRUCTURE AND PIPES
D8-4	CS 14+50.82+	28.46	RT	M8-8	U	604.302122	22	655.1122	1119.77	(E)VERIFY	(SE) VERIFY (W) VERIFY	6.68			REPLACE DRAINAGE STRUCTURE AND CONNECT TO EXISTING PIPES. FIELD VERIFY EXISTING PIPE INVERTS, SIZE, AND MATERIAL
D8-6	CS 15+93.12	28.27	LT	D7-3	B	604.300211	11	655.1111	1119.23	(E)1113.37	(W) 1113.75	8.53	30 SICPP	603.9830	FC 6 - INSTALL NEW DRAINAGE STRUCTURE AND PIPES
D8-8	CS 16+08.24	28.52	RT	D7-1	U	604.302122	22	655.1122	1119.06	(S)1114.43	(E) 1114.43 (W) 1114.43	7.30	12 SICPP	603.9812	REPLACE DRAINAGE STRUCTURE AND CONNECT TO EXISTING PIPES. FIELD VERIFY EXISTING PIPE INVERTS, SIZE, AND MATERIAL
M8-9	CS 16+46.02	37.87	RT	M7-6	MH				1119.91						EXISTING STRUCTURE TO REMAIN - NO WORK

TRD	2/16/24
JNT	12/9/22
JNT	8/29/22
BY	
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EA PROJECT NO.  
200395  
PROJECT MANAGER  
T. FAULKNER  
DRAWN BY  
T. DAVIS  
SCALE  
AS SHOWN  
ISSUE DATE  
FEB. 2022



PROJECT  
MAIN STREET UTILITY  
IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK  
TITLE OF DRAWING  
DRAINAGE TABLES

DRAWING NO.  
**DT-05**

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T.mD

SANITARY SEWER LATERALS

ITEM 660.35010001 - REESTABLISH SERVICE CONNECTIONS SEWER, COMPLETE

STATION/LOCATION	SIDE	ITEM 660.35010001 QUANTITY	NOTES
MAIN STREET			
23+37	LT	1	NEW 4" SERVICE - LOCATION TO BE CONFIRMED BY CITY
24+75	LT		
24+76	RT		
24+93	LT		
24+96	RT		
25+10	RT		
25+19	LT		
25+22	RT		
25+36	RT		
25+41	LT		
25+55	RT		
25+56	LT		
25+66	LT		
25+80	RT		
25+92	LT		
26+03	RT		
26+22	LT		
26+34	RT		
26+48	LT		
26+55	LT		
26+62	LT		
26+78	LT		
26+94	LT		
27+27	LT		
27+78	RT		
29+44	RT		
29+92	LT		
30+02	RT		
30+44	RT		
UNASSIGNED		15	LATERALS TO BE FIELD VERIFIED. REPLACEMENTS AOB.E.

NOTES:

1. ALL ACTIVE SANITARY SEWER LATERALS WITHIN THE RELINING AREA ON THE TRUCK LINE SHALL BE REPLACED.
2. LATERALS IDENTIFIED BY STATION IN THE PLANS AND SANITARY SEWER LATERAL TABLE WERE TAKEN FROM AVAILABLE VIDEO INSPECTION AND RECORD INFORMATION AND MAY NOT INCLUDE ALL LATERALS WITH IN THE PROTECT LIMITS, WHERE INFORMATION WAS NOT AVAILABLE LATERAL STATION WERE NOT PROVIDED. THE CONTRACTOR SHALL IDENTIFY OR VERIFY, PROTECT AND MAINTAIN ALL LATERALS WITHIN THE PROJECT LIMITS.
3. LATERALS TO BE REPLACED WILL BE AOB.E. SIZES TO BE FIELD VERIFIED PRIOR TO WORK.
4. LATERALS NO LONGER IN SERVICE TO BE ABANDON AS DETERMINED BY THE CITY AND AOB.E.

STORM SEWER LATERALS

ITEM 660.35010001 - REESTABLISH SERVICE CONNECTIONS SEWER, COMPLETE

STATION/LOCATION	SIDE	SERVICE ADDRESS	ITEM 660.35010001 QUANTITY	NOTES
G 8+34	RT	1 MAIN ST	1	TIE INTO EXISTING CB
M 20+43	RT	99-101 MAIN ST	1	TIE INTO PROPOSED PIPE
M 21+03	RT	89 MAIN ST	1	TIE INTO PROPOSED PIPE
M 28+60	RT	23-29 MAIN ST	1	TIE INTO PROPOSED PIPE - 6" LINE
C 1+31	RT	96 MAIN ST	1	TIE INTO EXISTING PIPE
TOTAL			5	

NOTES:

1. ALL STORM SEWER LATERALS TO BE 4" UNLESS NOTED IN TABLE.
2. THE LOCATION OF THE PROPOSED LATERAL IS APPROXIMATE. FINAL LOCAION TO BE FIELD VERIFIED WITH THE CITY PRIOR TO INSTALLATION.

7	6	5	4	3	2	1

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PROJECT NO.  
200395  
PROJECT MANAGER  
T. FAULKNER  
DRAWN BY  
T. DAVIS  
SCALE  
AS SHOWN  
ISSUE DATE  
FEB. 2022



PROJECT  
MAIN STREET UTILITY  
IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK

TITLE OF DRAWING  
SEWER TABLES

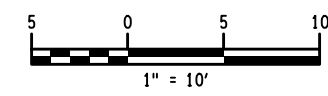
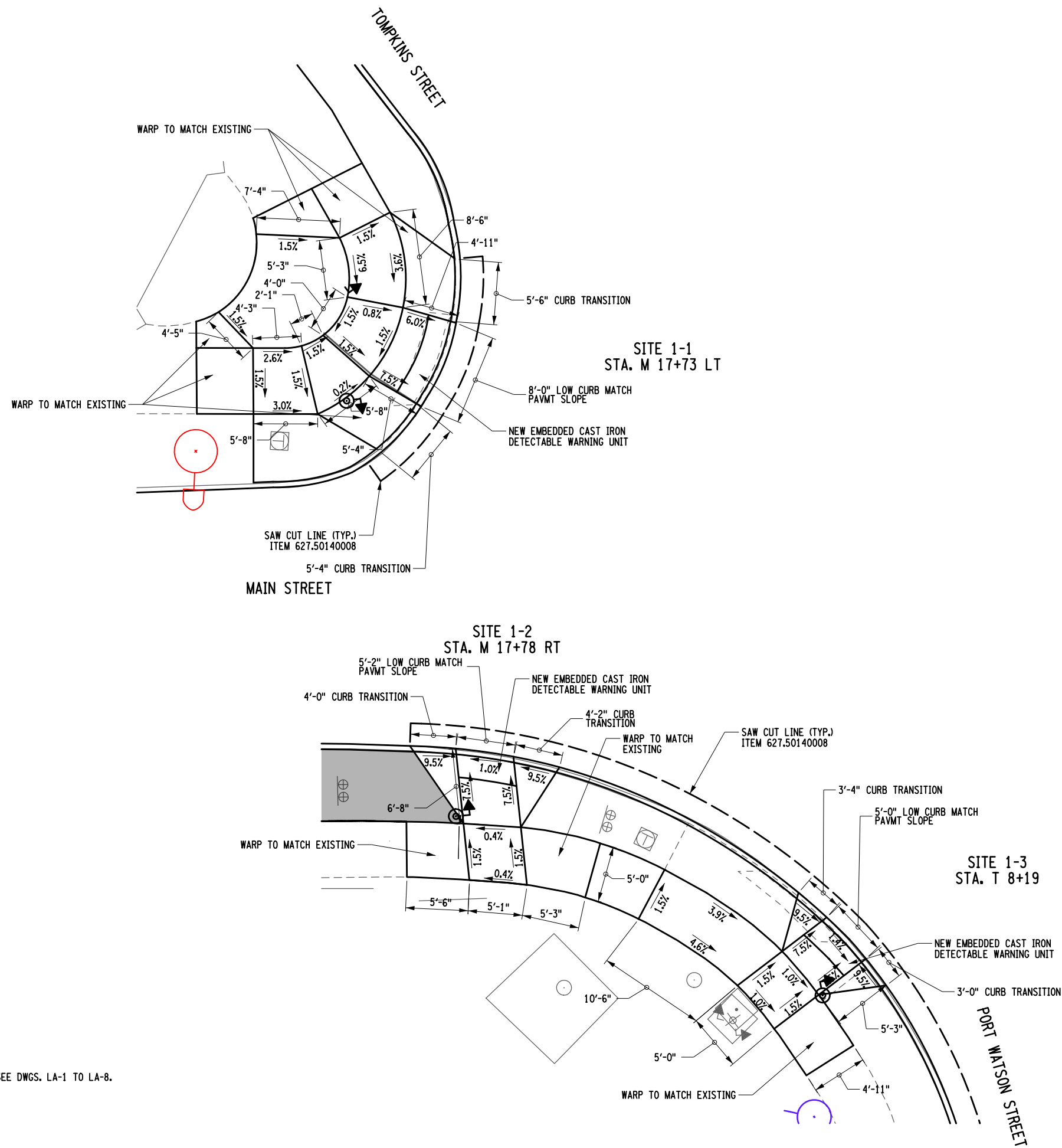
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**ST-01**

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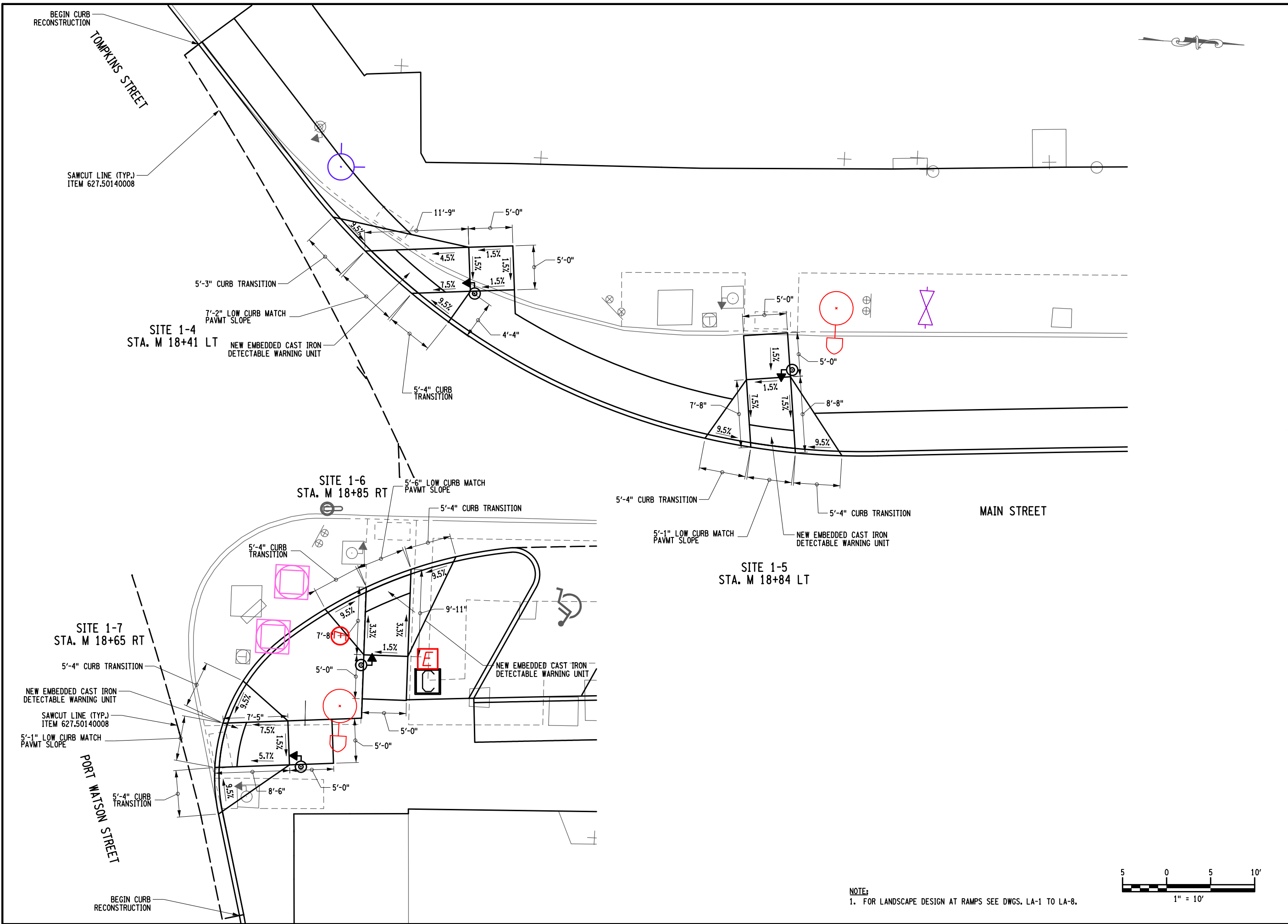
200395\_sph\_rmd-01.dgn  
 24-MAR-2022 17:49 \*TIME\*  
 T.mD

**NOTE:**  
 1. FOR LANDSCAPE DESIGN AT RAMPS SEE DWGS. LA-1 TO LA-8.



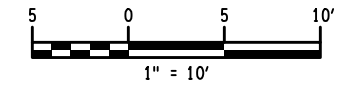
PROJECT MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK		TITLE OF DRAWING CURB RAMP DESIGN PORT WATSON ST/TOMPKINS ST AND MAIN ST	
PROJECT NO. 200395		PROJECT MANAGER T. FAULKNER	
DRAWN BY J. GONZALES		ISSUE DATE FEB. 2022	
SCALE AS SHOWN		DATE FEB. 2022	
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7	REV	DESCRIPTION	DATE
6			
5			
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2			
1			

DRAWING NO.  
**RMD-01**  
 SHEET 48 OF 169



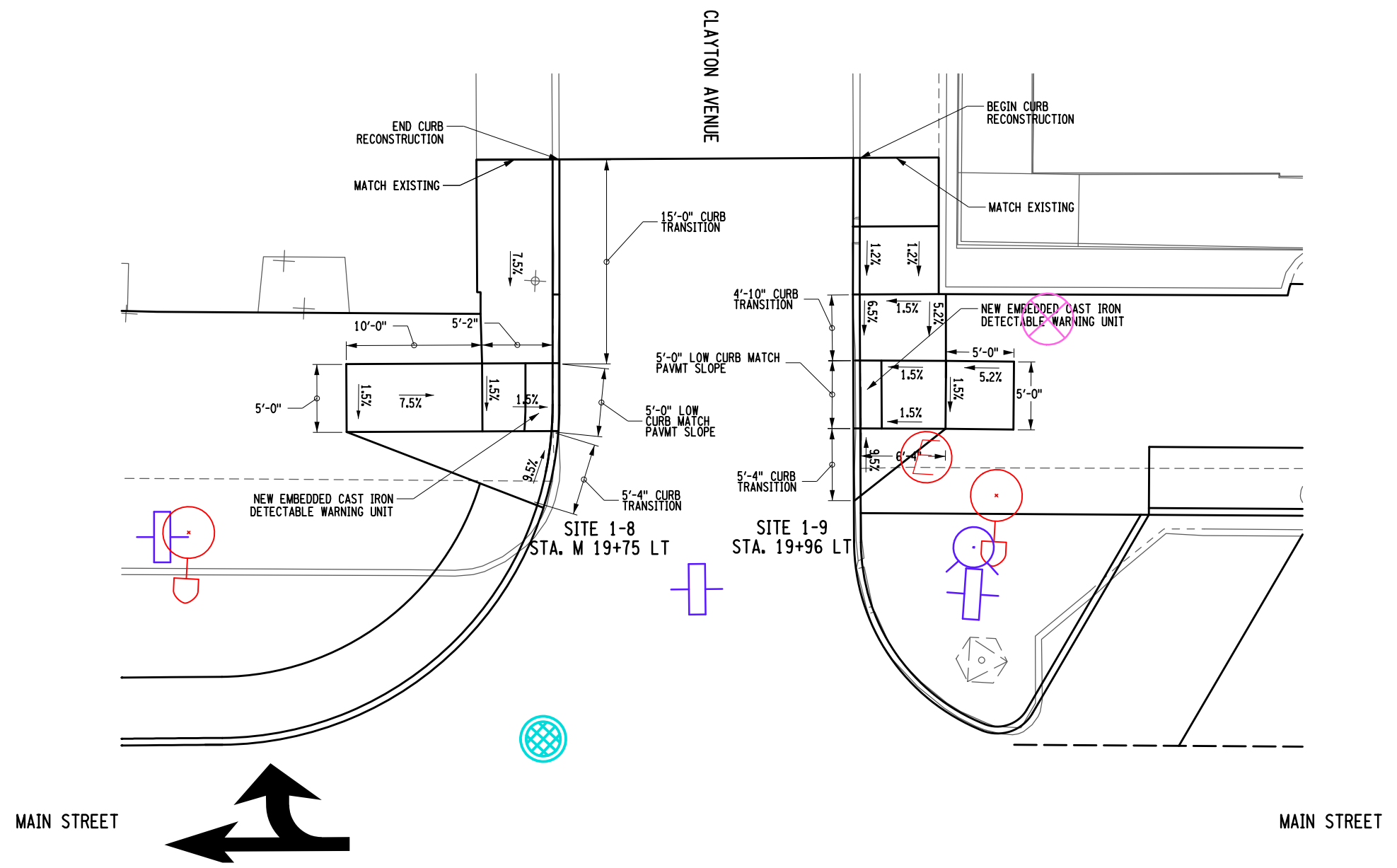
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 24-MAR-2022 17:49 \*TIME\*  
 T.mD

NOTE:  
 1. FOR LANDSCAPE DESIGN AT RAMPS SEE DWGS. LA-1 TO LA-8.



PROJECT MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK		TITLE OF DRAWING CURB RAMP DESIGN PORT WATSON ST/TOMPKINS ST AND MAIN ST	
PROJECT NO. 200395		PROJECT MANAGER T. FAULKNER	
DRAWN BY J. GONZALES		ISSUE DATE FEB. 2022	
SCALE AS SHOWN		DATE	
DRAWING NO. <b>RMD-02</b>		SHEET 49 OF 169	
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DESCRIPTION		DATE	
BY		DATE	



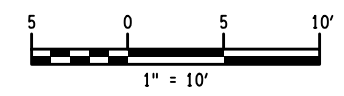


MAIN STREET

MAIN STREET

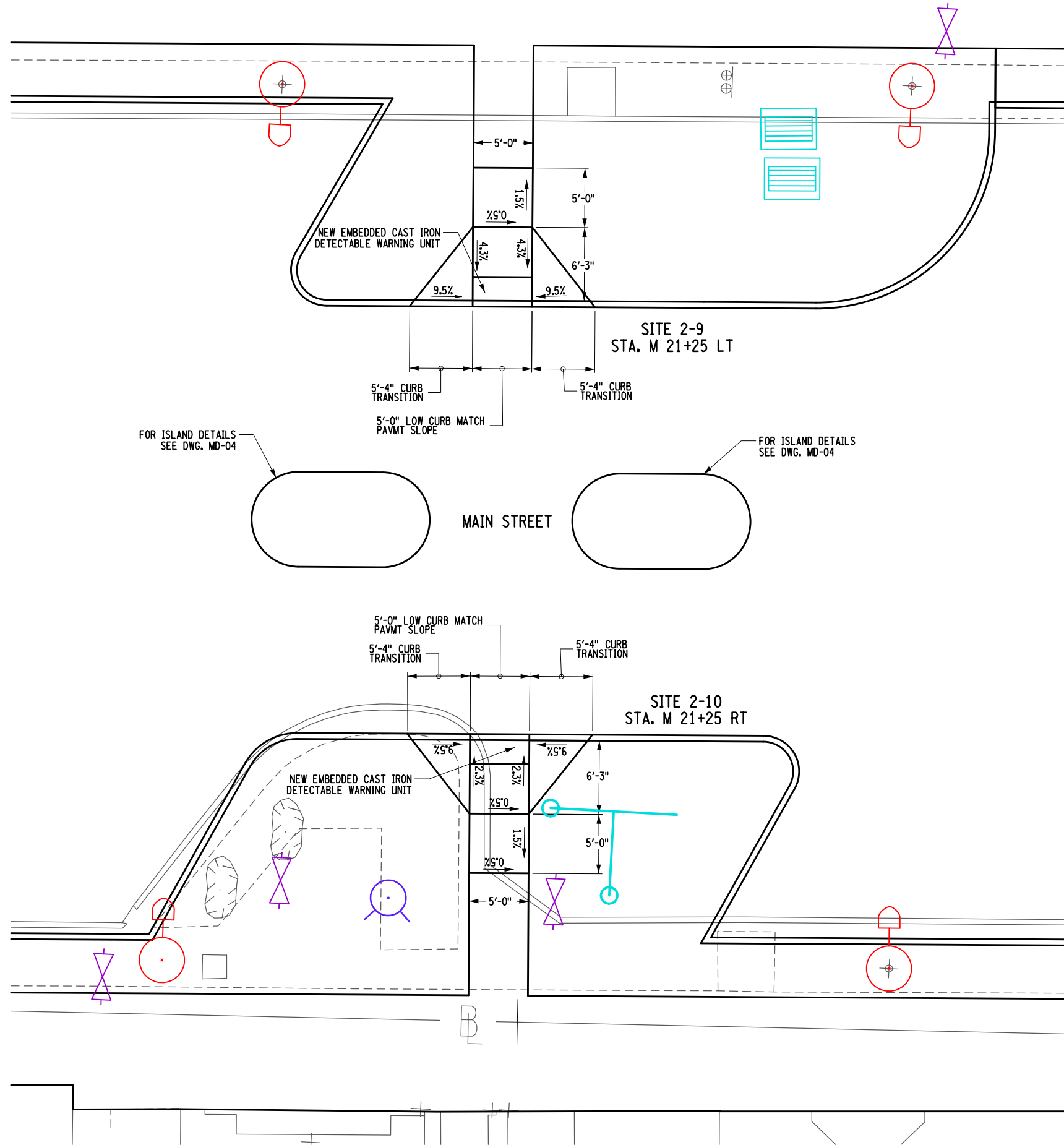
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28-MAR-2023 12:46  
Jaymes

**NOTE:**  
1. FOR LANDSCAPE DESIGN AT RAMPS SEE DWGS. LA-1 TO LA-8.

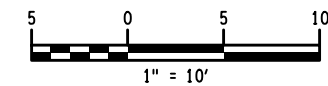


PROJECT MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK		TITLE OF DRAWING CURB RAMP DESIGN CLAYTON AVE AND MAIN ST	
DRAWING NO. <b>RMD-03</b>		SHEET 50F1 OF 171	
PROJECT NO. 200395		PROJECT MANAGER T. FAULKNER	
DRAWN BY J. GONZALES		ISSUE DATE FEB. 2022	
SCALE AS SHOWN		DATE 3/24/23	
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STATE OF NEW YORK PROFESSIONAL ENGINEER 082814 PETER WOOD		J. GONZALES	

200395\_sph\_RMD-04.dgn  
 24-MAR-2022 17:49 \*TIME\*  
 T.mD



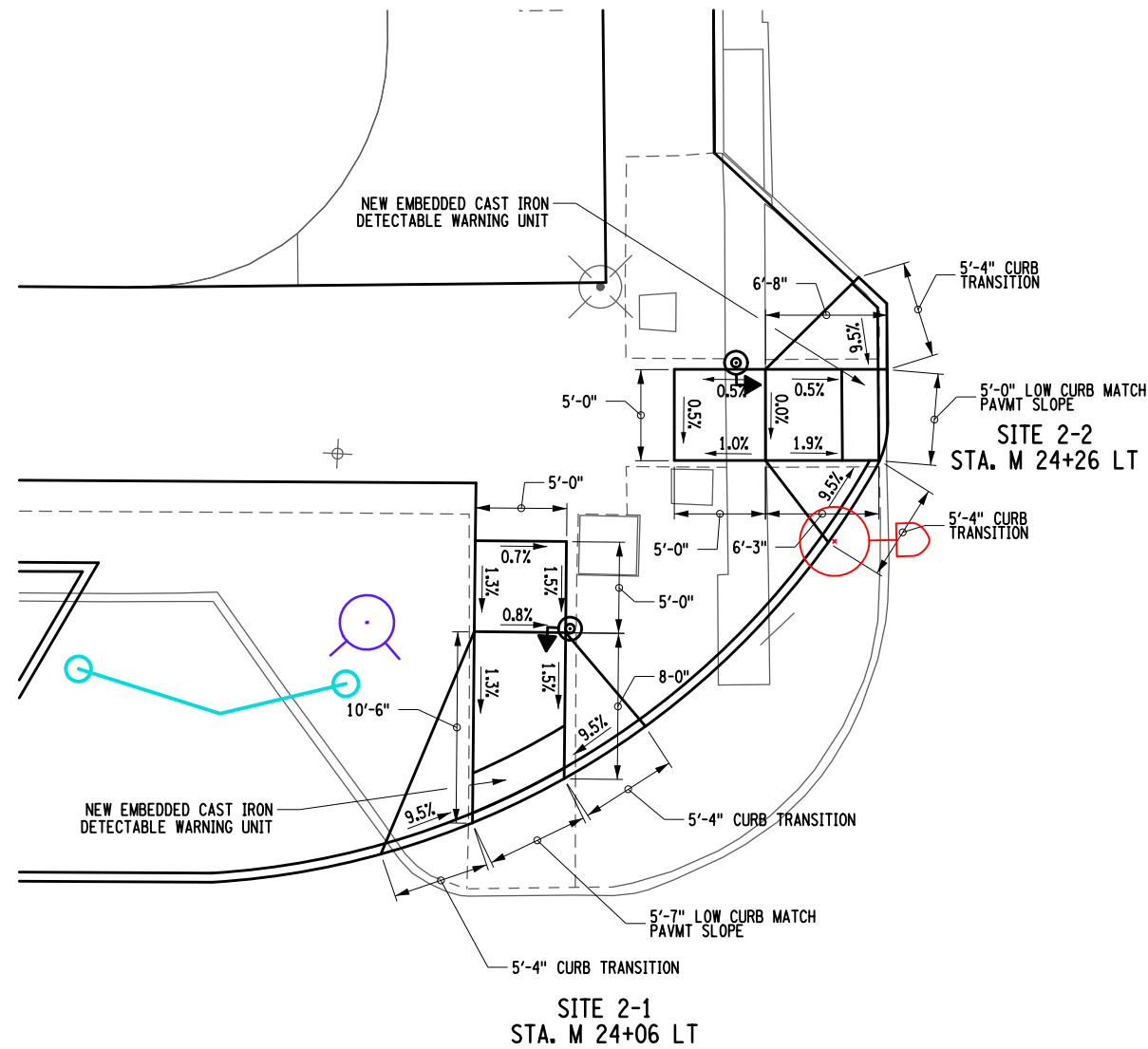
NOTE:  
 1. FOR LANDSCAPE DESIGN AT RAMPS SEE DWGS. LA-1 TO LA-8.



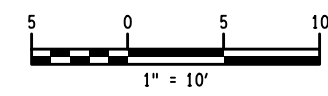
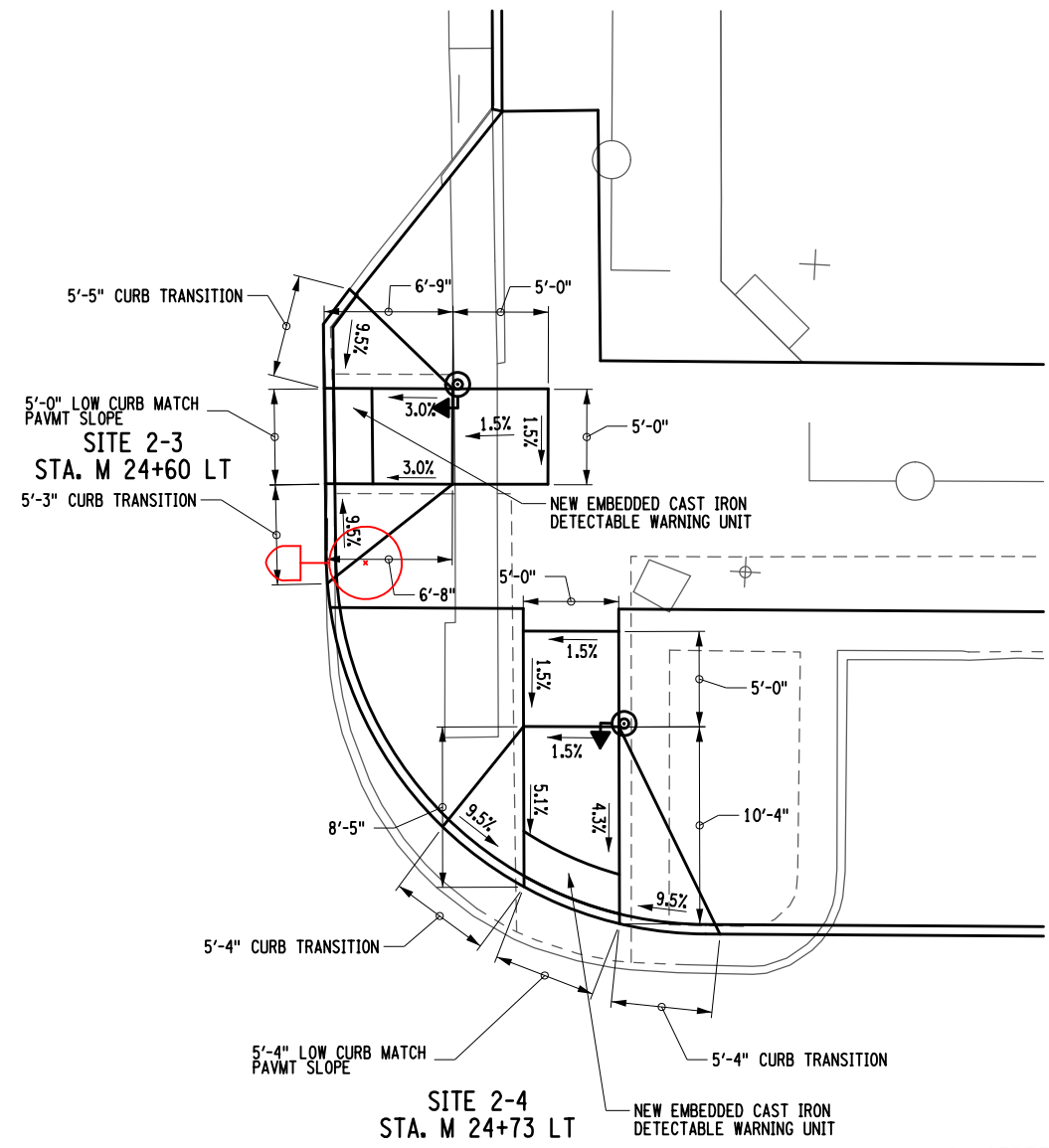
PROJECT MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK		TITLE OF DRAWING CURB RAMP DESIGN MAIN ST	
PROJECT NO. 200395		PROJECT MANAGER T. FAULKNER	
DRAWN BY J. GONZALES		SCALE AS SHOWN	
ISSUE DATE FEB. 2022		ISSUE DATE FEB. 2022	
PROFESSIONAL ENGINEER PETER RENT WOODS 082814		PROFESSIONAL ENGINEER J. GONZALES 082814	
FISHER ASSOCIATES WWW.FISHERASSOC.COM		FISHER ASSOCIATES P.E. L.S. LA, D.P.C.	
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DESCRIPTION		DATE	
BY		DATE	

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24-MAR-2022 17:49 \*TIME\*  
T.mD

NOTE:  
1. FOR LANDSCAPE DESIGN AT RAMPS SEE DWGS. LA-1 TO LA-8.



W COURT STREET

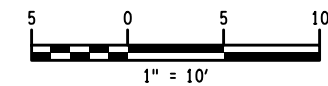
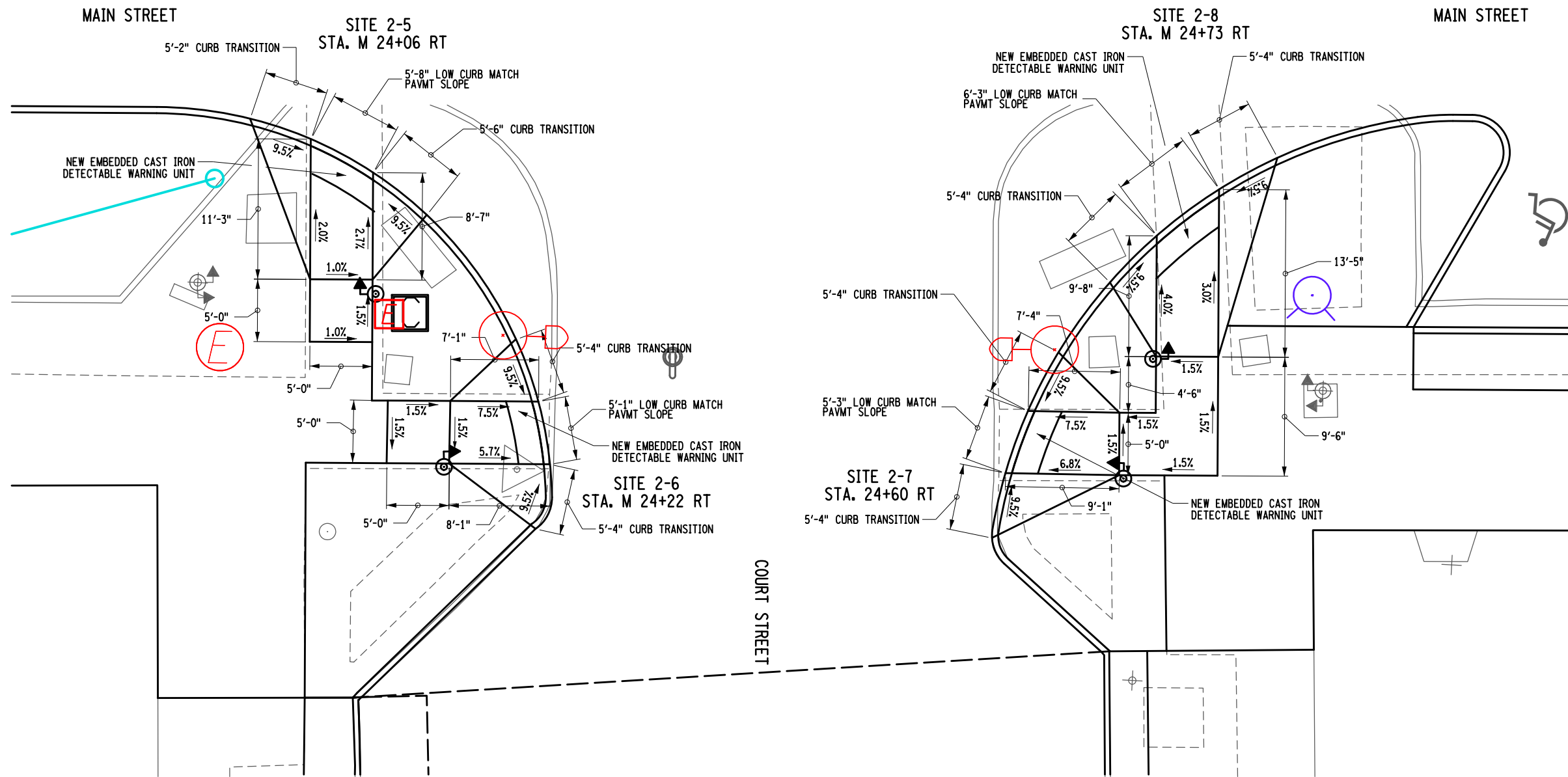


PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK		TITLE OF DRAWING: CURB RAMP DESIGN W COURT ST AND MAIN ST	
DRAWING NO. <b>RMD-05</b>		SHEET 52 OF 169	
PROJECT NO. 200395		PROJECT MANAGER T. FAULKNER	
DRAWN BY J. GONZALES		SCALE AS SHOWN	
ISSUE DATE FEB. 2022		DATE FEB. 2022	
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7	REV	DESCRIPTION	DATE
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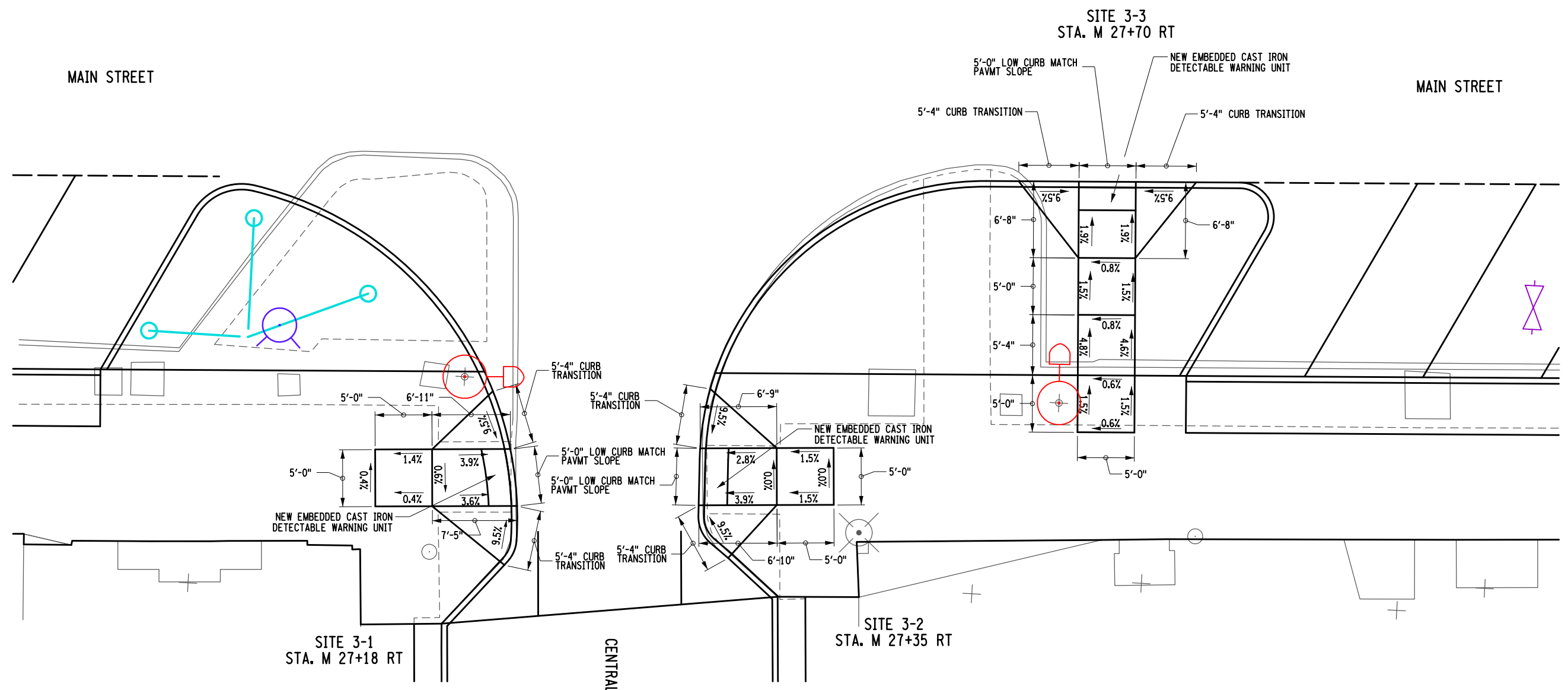


200395\_sph\_RMD-06.dgn  
24-MAR-2022 17:49 \*TIME\*  
T.M.D

NOTE:  
1. FOR LANDSCAPE DESIGN AT RAMPS SEE DWGS. LA-1 TO LA-8.

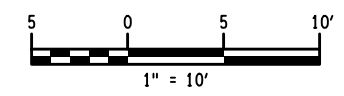


PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK		TITLE OF DRAWING: CURB RAMP DESIGN COURT ST AND MAIN ST		
DRAWING NO. <h1>RMD-06</h1>				
SHEET 53 OF 169				
PROJECT NO. 200395		PROJECT MANAGER T. FAULKNER		
DRAWN BY J. GONZALES		ISSUE DATE FEB. 2022		
SCALE AS SHOWN		DATE FEB. 2022		
STATE OF NEW YORK SEAL OF PETER RENT WOODS 082814 PROFESSIONAL ENGINEER				
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7	REV	DESCRIPTION	DATE	BY
6				
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 24-MAR-2022 17:49 \*TIME\*  
 T.mD

**NOTE:**  
 1. FOR LANDSCAPE DESIGN AT RAMPS SEE DWGS. LA-1 TO LA-8.

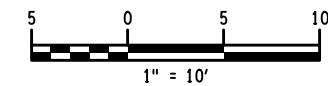
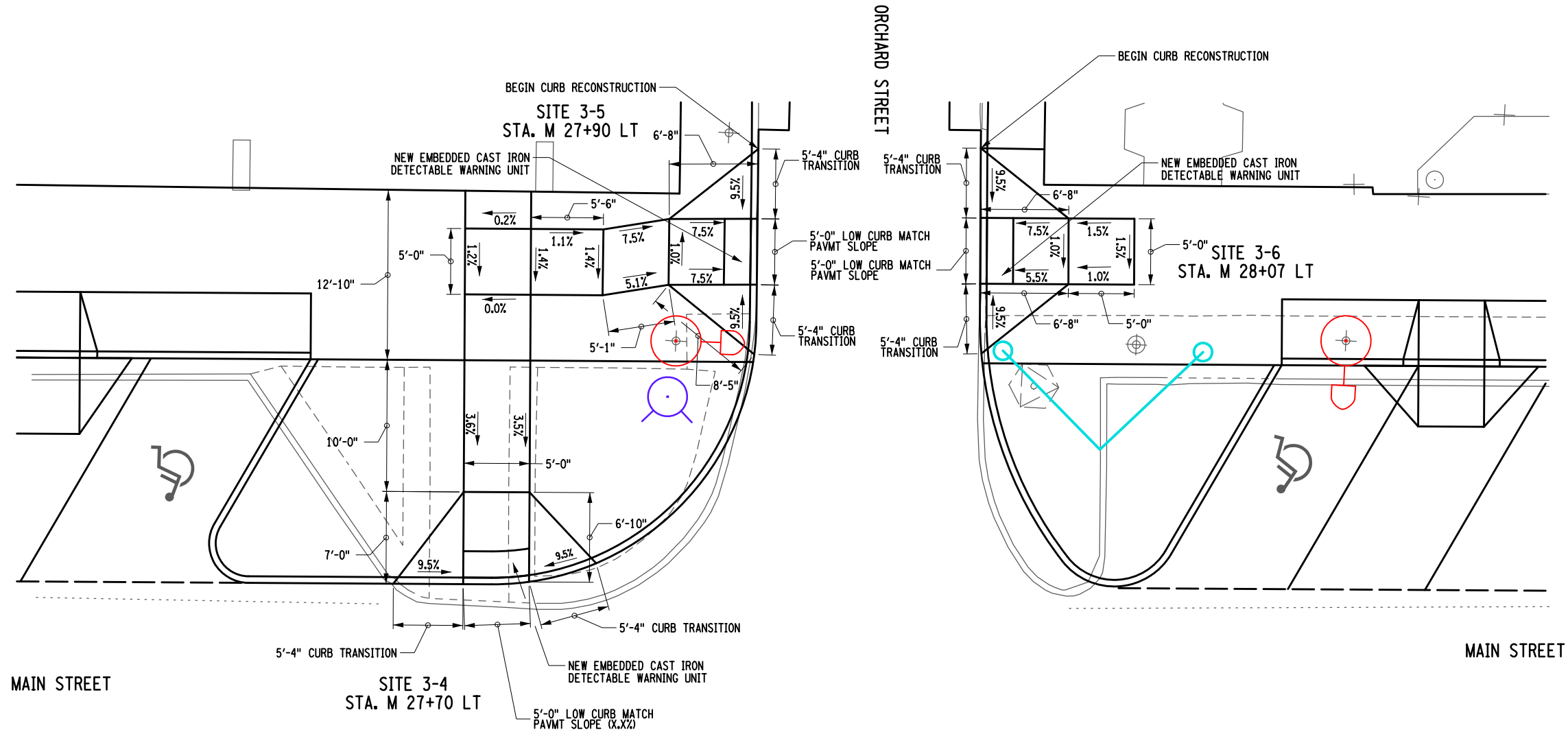


PROJECT MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK		TITLE OF DRAWING CURB RAMP DESIGN CENTRAL AVE AND MAIN ST	
DRAWING NO. <b>RMD-07</b>		SHEET 54 OF 169	
PROJECT NO. 200395 PROJECT MANAGER T. FAULKNER DRAWN BY J. GONZALES SCALE AS SHOWN		ISSUE DATE FEB. 2022	
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DESCRIPTION		DATE BY	



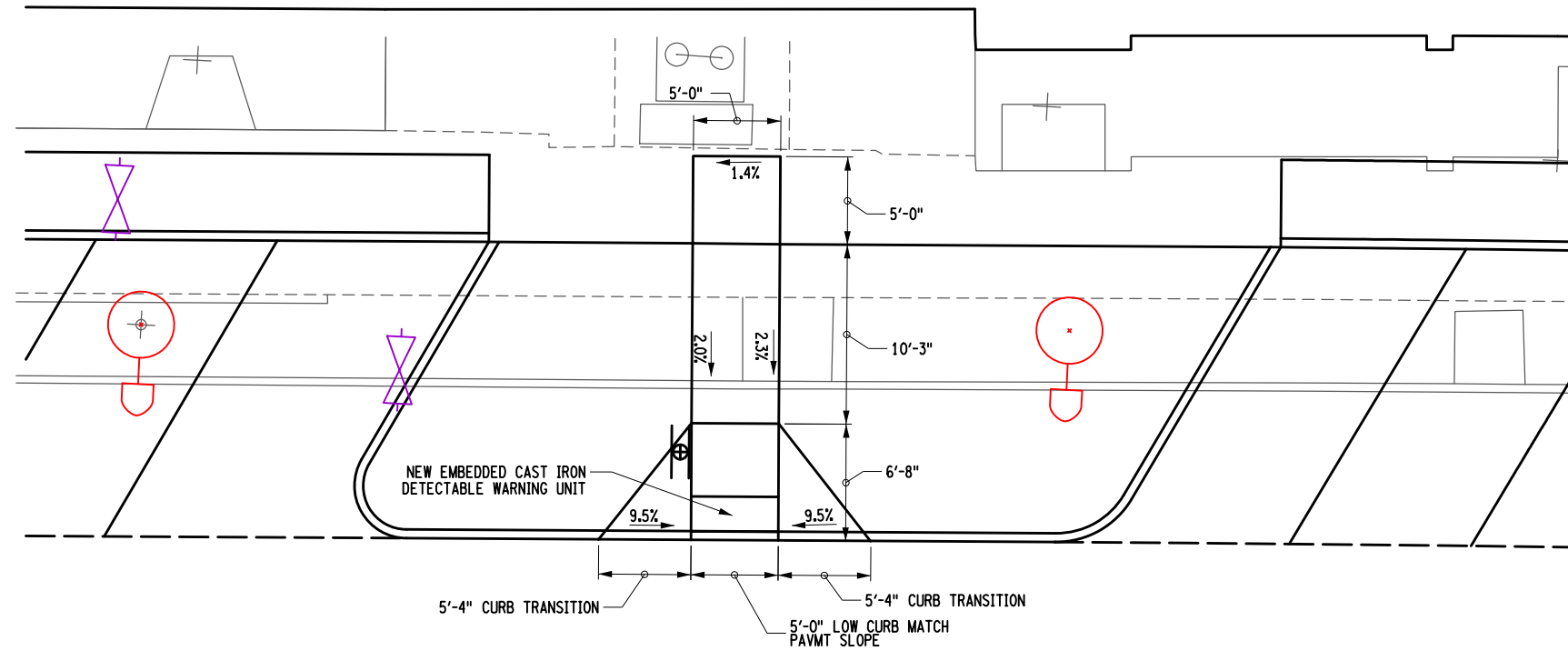
200395.dwg  
 24-MAR-2022 17:49 \*TIME\*  
 T.mD

NOTE:  
 1. FOR LANDSCAPE DESIGN AT RAMPS SEE DWGS. LA-1 TO LA-8.



PROJECT MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK		TITLE OF DRAWING CURB RAMP DESIGN ORCHARD ST AND MAIN ST	
DRAWING NO. <b>RMD-08</b>		SHEET 55 OF 169	
PROJECT NO. 200395		PROJECT MANAGER T. FAULKNER	
DRAWN BY J. GONZALES		ISSUE DATE FEB. 2022	
SCALE AS SHOWN		DATE FEB. 2022	
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7	REV	DESCRIPTION	DATE
6			
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1			





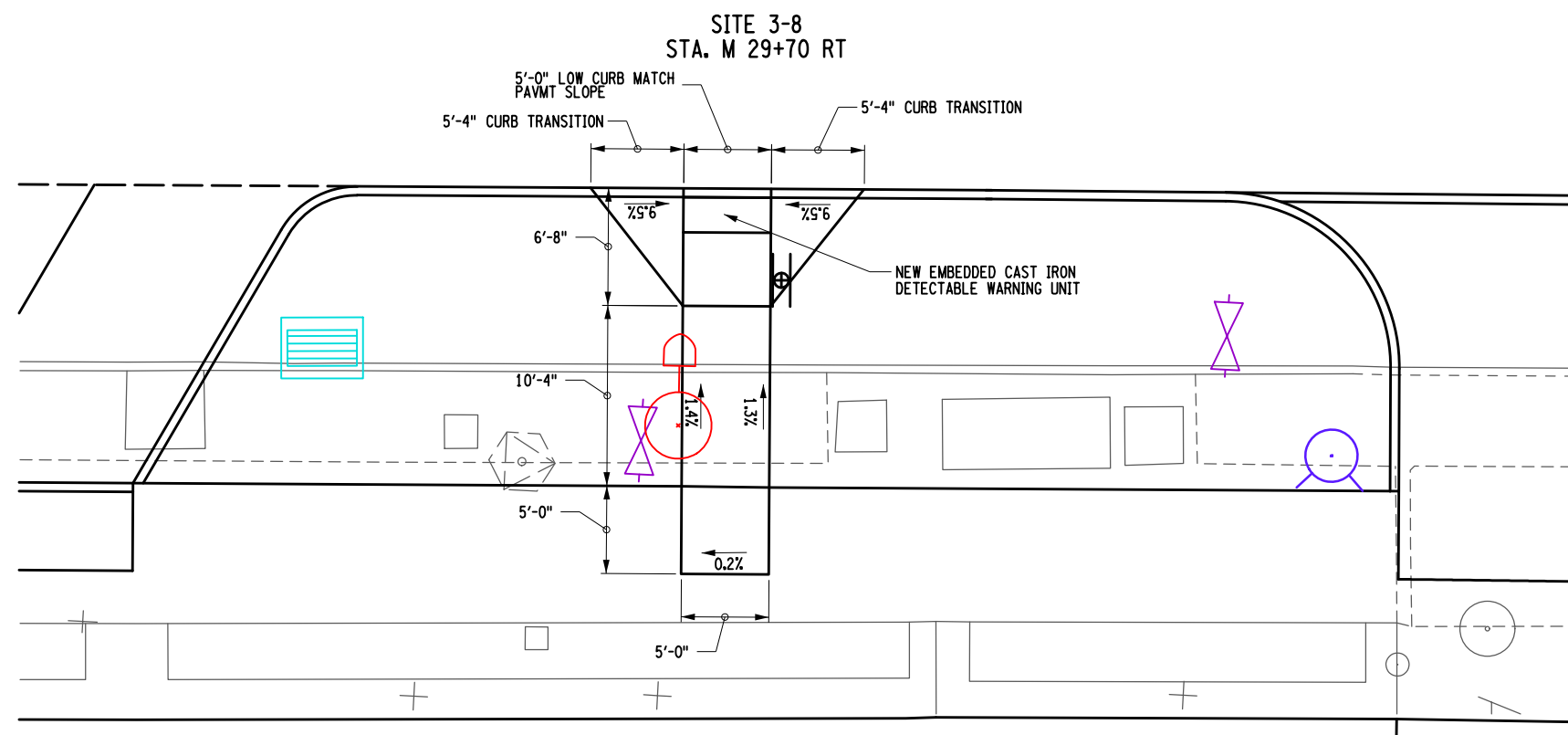
SITE 3-7  
STA. M 29+70 LT

FOR ISLAND DETAILS  
SEE DWG. MD-04

FOR ISLAND DETAILS  
SEE DWG. MD-04

MAIN STREET

MAIN STREET



SITE 3-8  
STA. M 29+70 RT

5'-0" LOW CURB MATCH  
PAVMT SLOPE

5'-4" CURB TRANSITION

5'-4" CURB TRANSITION

NEW EMBEDDED CAST IRON  
DETECTABLE WARNING UNIT

10'-4"

5'-0"

5'-0"

6'-8"

7/5'6"

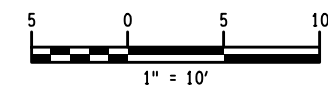
1.4%

1.3%

0.2%

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24-MAR-2022 17:49  
T.mD

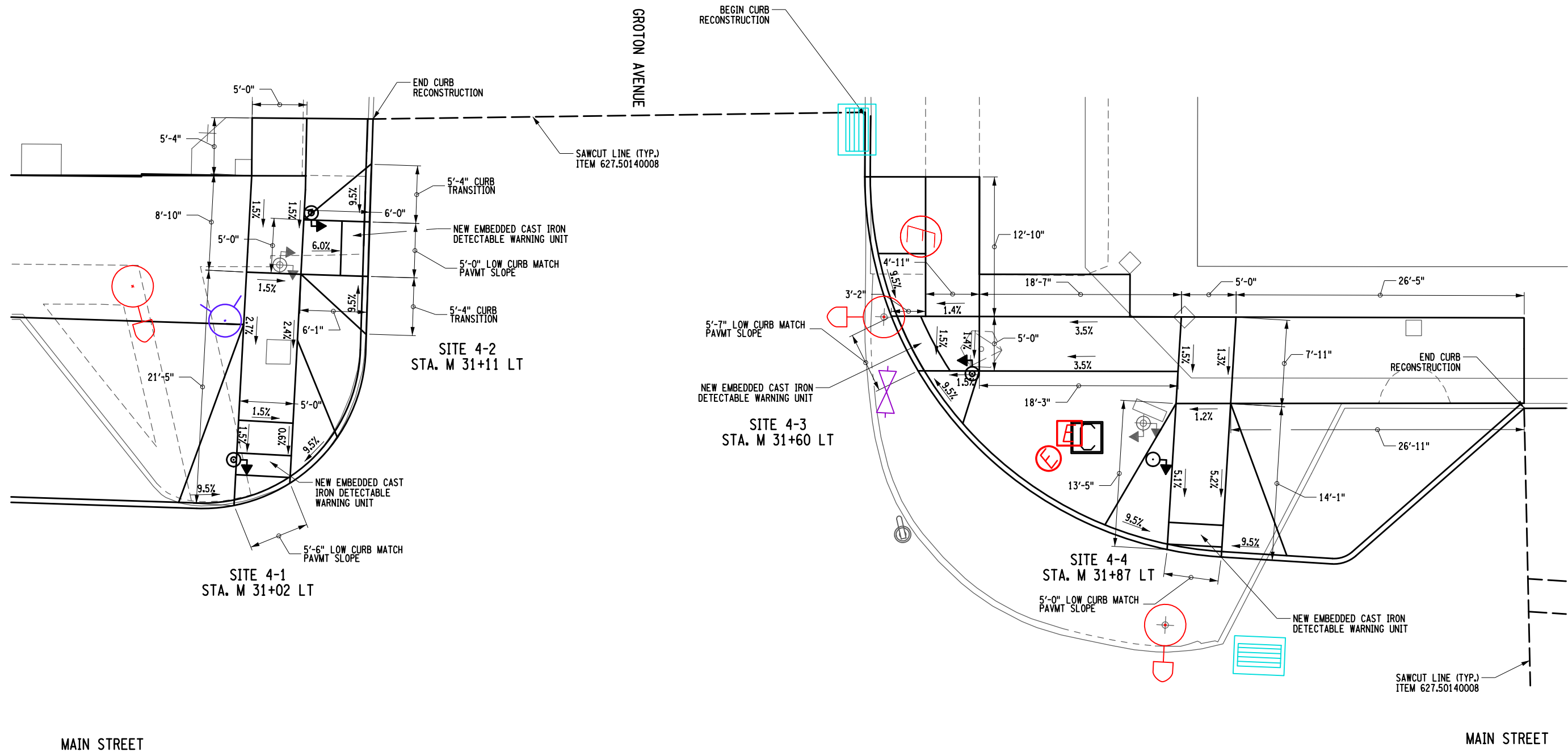
NOTE:  
1. FOR LANDSCAPE DESIGN AT RAMPS SEE DWGS. LA-1 TO LA-8.



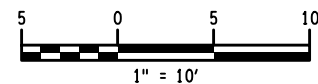
PROJECT MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK		TITLE OF DRAWING CURB RAMP DESIGN MAIN ST	
DRAWING NO. <b>RMD-09</b>		SHEET 56 OF 169	
PROJECT NO. 200395	PROJECT MANAGER T. FAULKNER	DRAWN BY J. GONZALES	SCALE AS SHOWN
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DESCRIPTION	DATE	BY	DATE



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24-MAR-2022 17:50 \*TIME\*  
T.mD

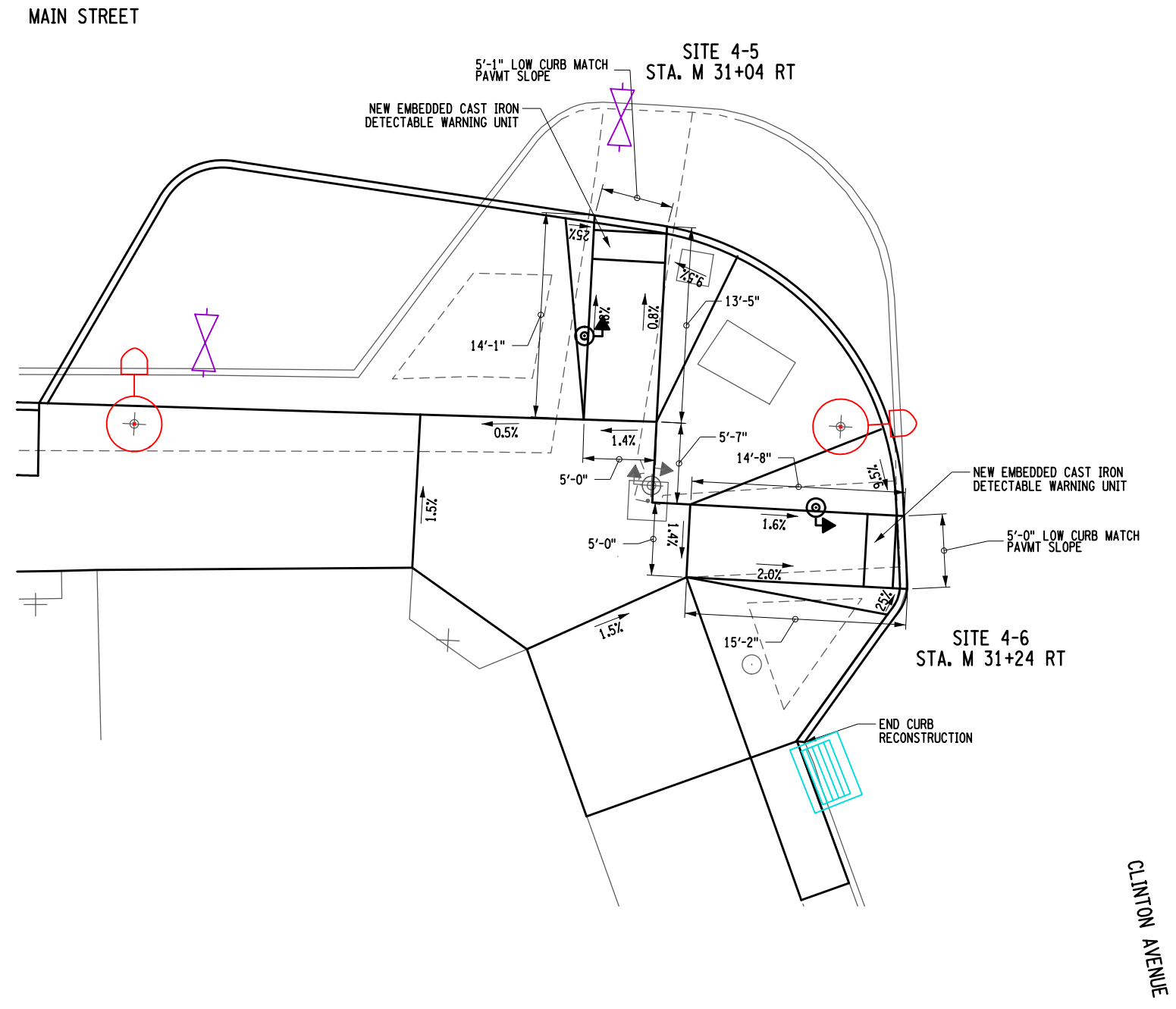


NOTE:  
1. FOR LANDSCAPE DESIGN AT RAMPS SEE DWGS. LA-1 TO LA-8.



PROJECT MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK		DRAWING NO. <b>RMD-10</b>	
TITLE OF DRAWING CURB RAMP DESIGN GROTON AVE AND MAIN ST		SHEET 57 OF 169	
PROJECT NO. 200395		ISSUE DATE FEB. 2022	
PROJECT MANAGER T. FAULKNER		SCALE AS SHOWN	
DRAWN BY J. GONZALES		DATE FEB. 2022	
FISHER ASSOCIATES WWW.FISHERASSOC.COM		REV	
STATE OF NEW YORK SEAL OF PETER RENT WOOD 082814 REGISTERED PROFESSIONAL ENGINEER		DESCRIPTION	
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FIELD CHANGE SHEET  
THIS SHEET SUPERCEDES SHEET 58.



MAIN STREET

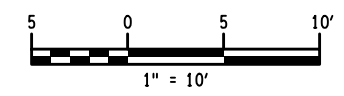
SITE 4-5  
STA. M 31+04 RT

SITE 4-6  
STA. M 31+24 RT

CLINTON AVENUE

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28-MAR-2023 12:46  
Jaymes

NOTE:  
1. FOR LANDSCAPE DESIGN AT RAMPS SEE DWGS. LA-1 TO LA-8.

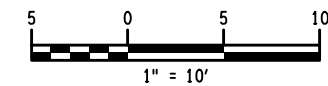
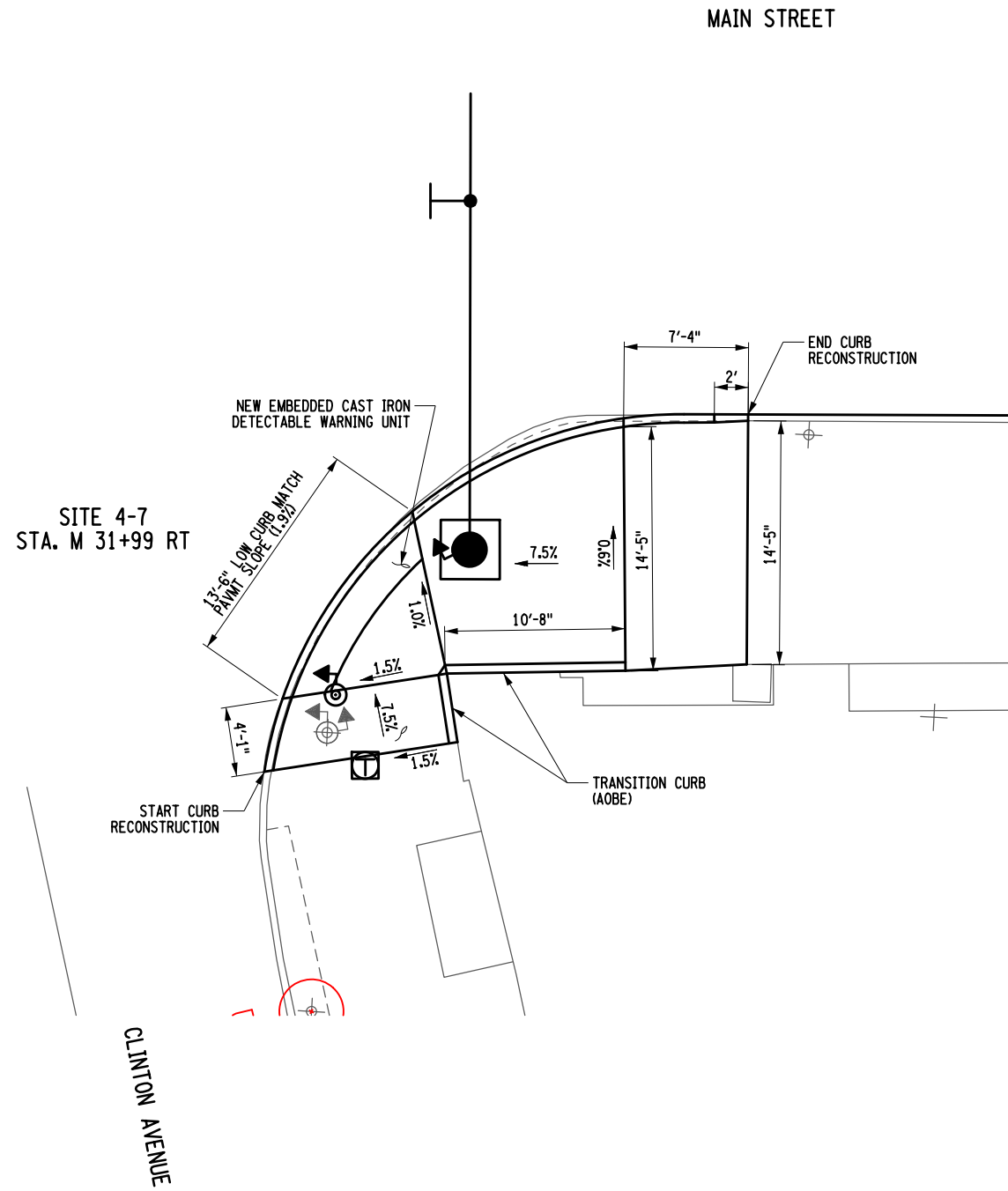


PROJECT MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK		TITLE OF DRAWING CURB RAMP DESIGN CLINTON AVE AND MAIN ST	
DRAWING NO. <b>RMD-11</b>		SHEET 58F1 OF 171	
PROJECT NO. 200395		PROJECT MANAGER T. FAULKNER	
DRAWN BY J. GONZALES		SCALE AS SHOWN	
ISSUE DATE FEB. 2022		ISSUE DATE FEB. 2022	
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7	6	5	4
3	2	1	REV
3/24/23	JNT	DATE	BY
1	1	DESCRIPTION	CURB LINE CHANGES

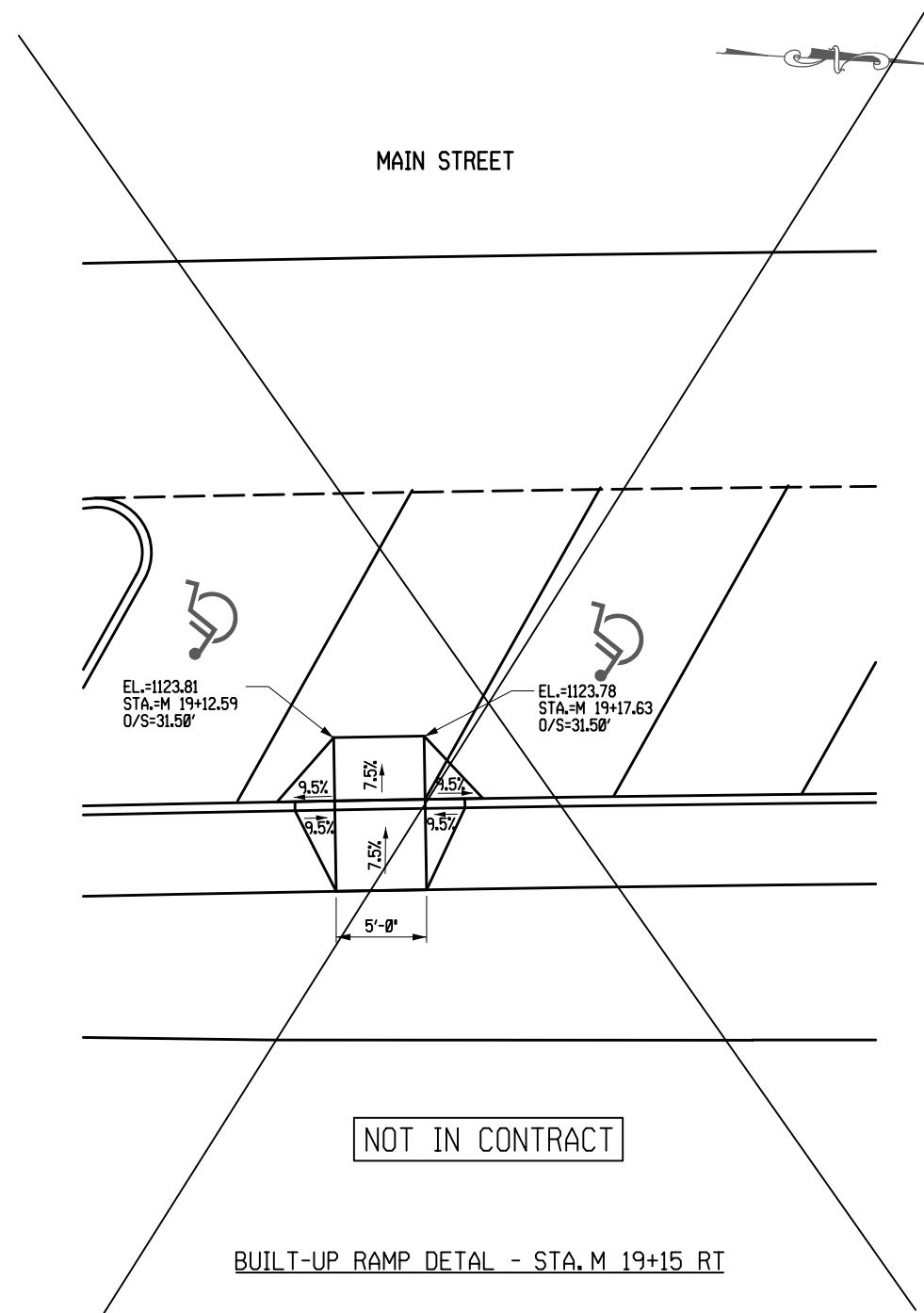


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 T.mD

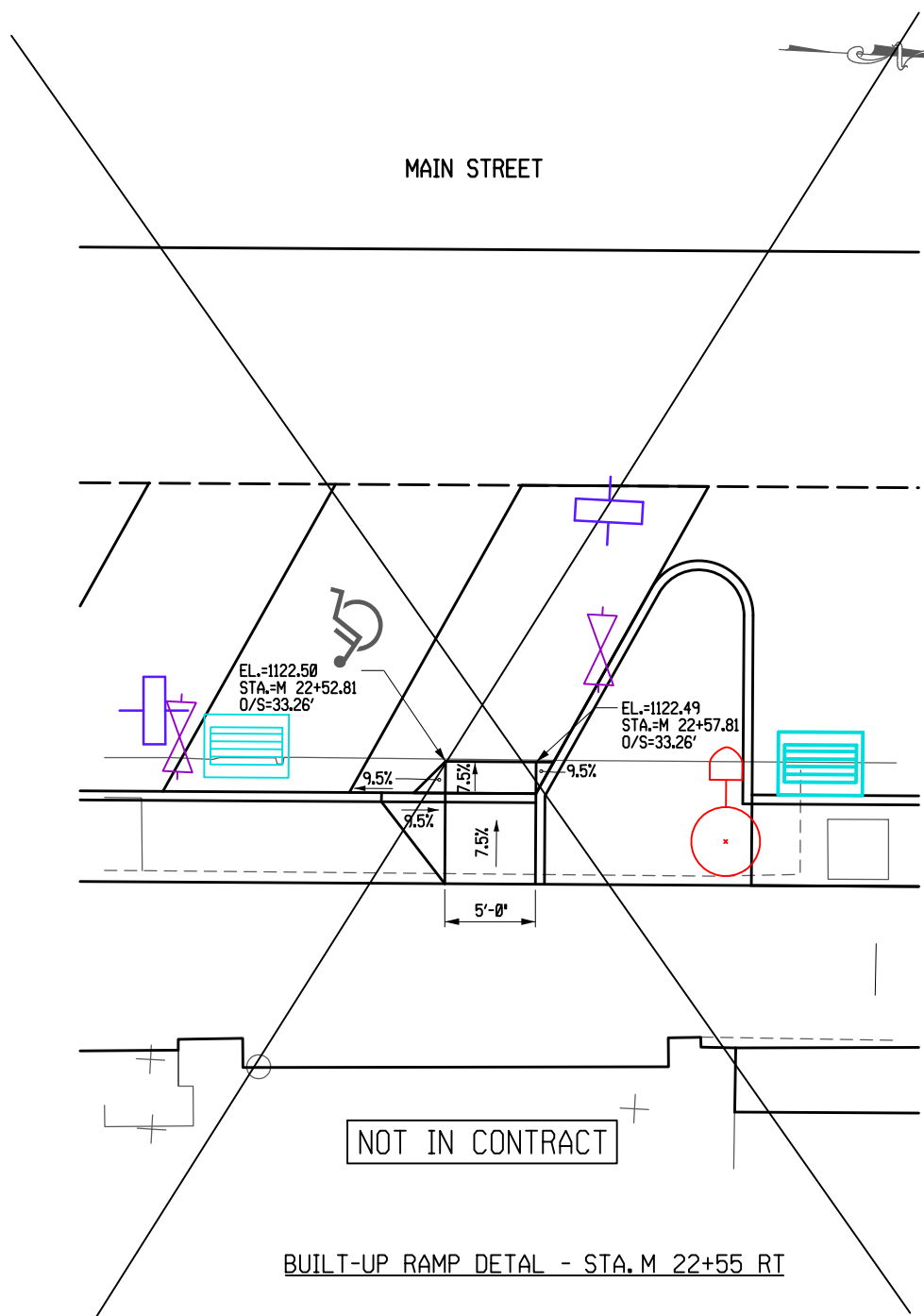
NOTE:  
 1. FOR LANDSCAPE DESIGN AT RAMPS SEE DWGS. LA-1 TO LA-8.



PROJECT MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK		TITLE OF DRAWING CURB RAMP DESIGN CLINTON AVE AND MAIN ST	
DRAWING NO. <b>RMD-12</b>		SHEET 59 OF 169	
PROJECT NO. 200395		PROJECT MANAGER T. FAULKNER	
DRAWN BY C. CLARK		SCALE AS SHOWN	
ISSUE DATE FEB. 2022		FISCAL YEAR 2022	
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7	REV	DESCRIPTION	DATE
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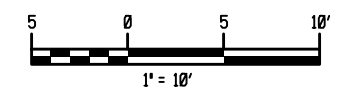
BUILT-UP RAMP DETAL - STA. M 19+15 RT



BUILT-UP RAMP DETAL - STA. M 22+55 RT

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16-DEC-2022 15:12 JAYMES

NOTE:  
1. FOR LANDSCAPE DESIGN AT RAMPS SEE DWGS. LA-1 TO LA-8.



7					
6					
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1	FC3 CURB RAMP REVISIONS	12/9/22	JNT	BY	
REV	DESCRIPTION	DATE			

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EA PROJECT NO.  
200395  
PROJECT MANAGER  
T. FAULKNER  
DRAWN BY  
C. CLARK  
SCALE  
AS SHOWN  
ISSUE DATE  
FEB. 2022

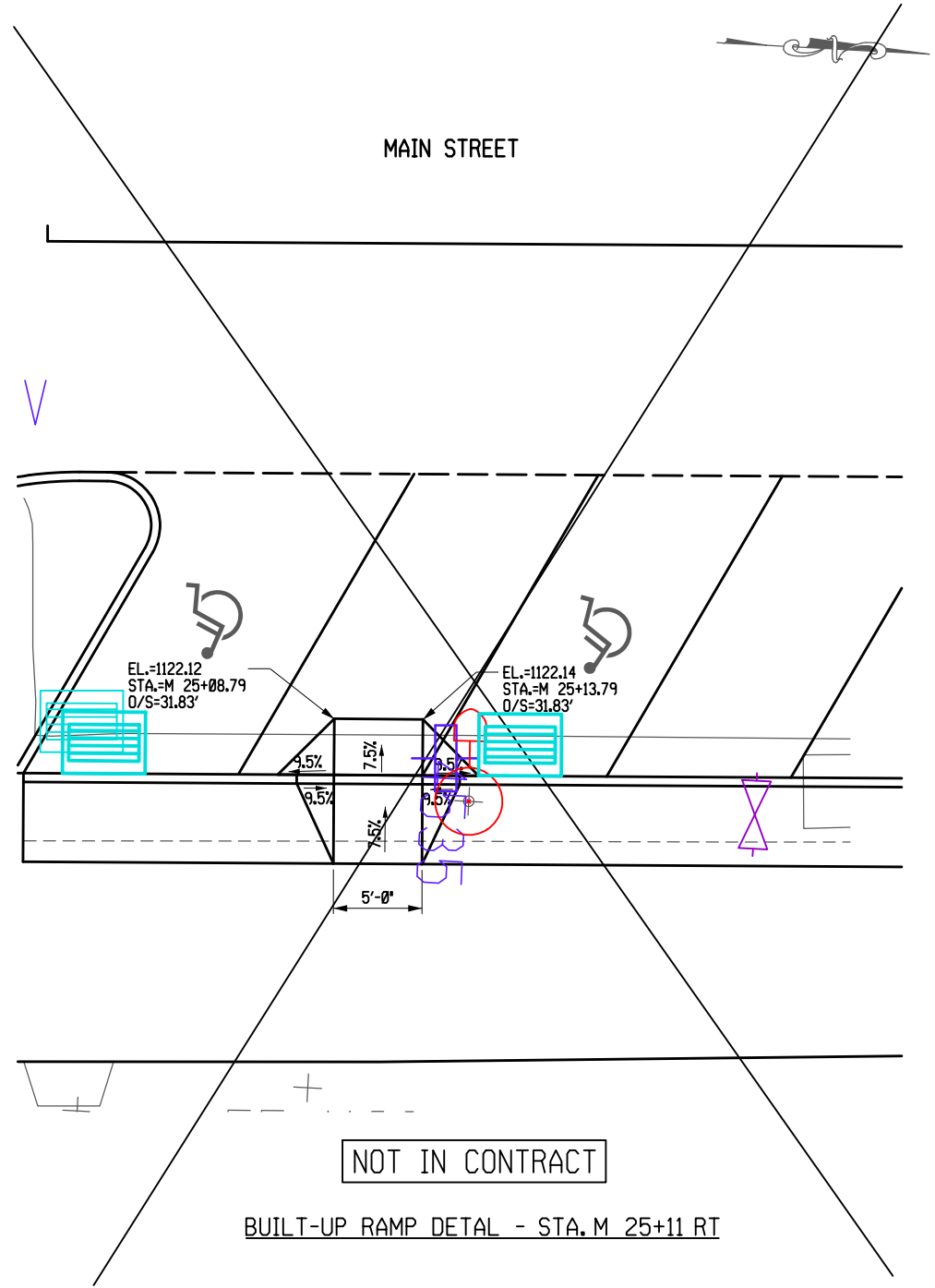
**FISHER ASSOCIATES**  
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PROJECT  
MAIN STREET UTILITY  
IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK

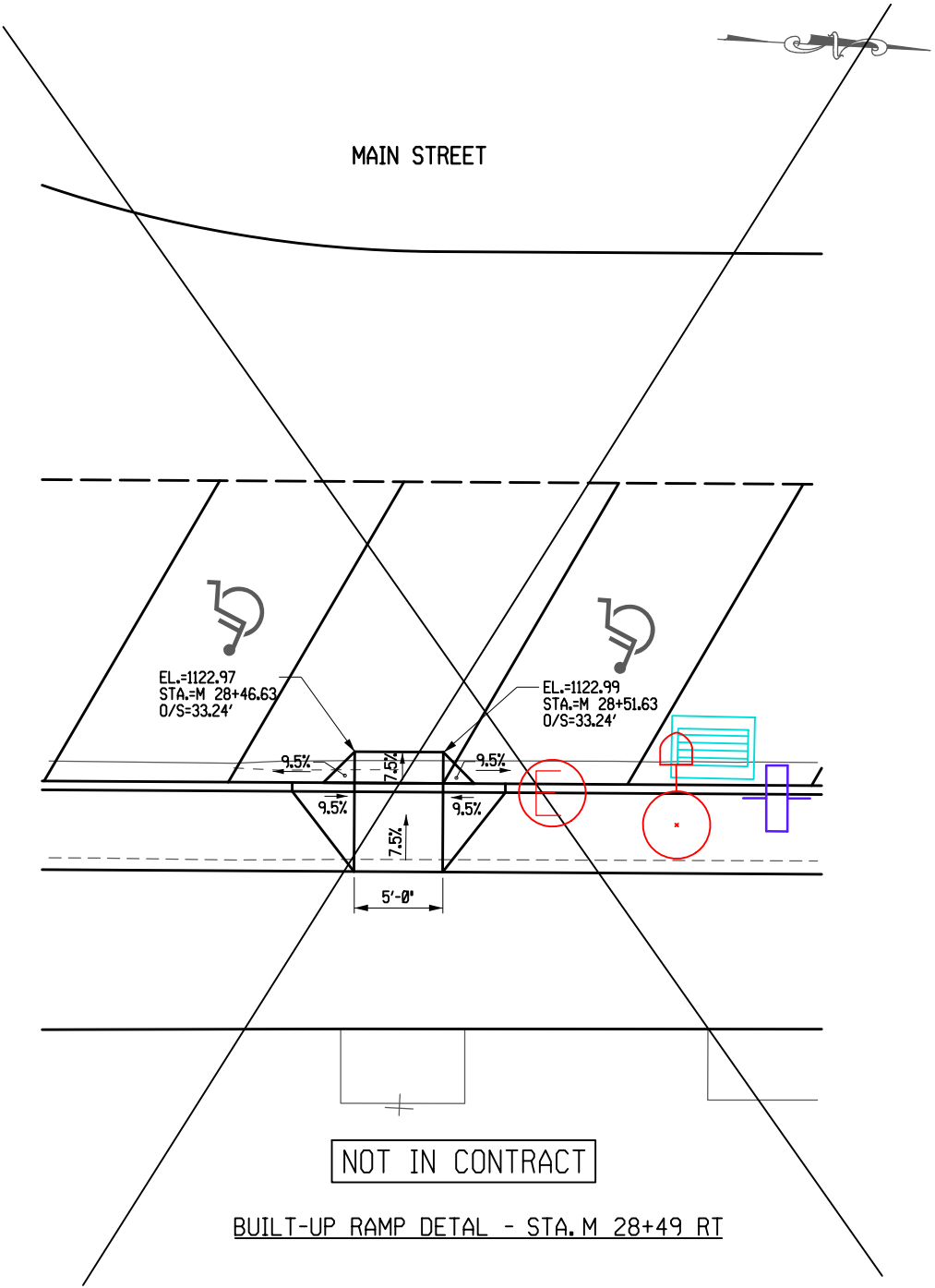
TITLE OF DRAWING  
CURB RAMP DESIGN

DRAWING NO.  
**RMD-13**

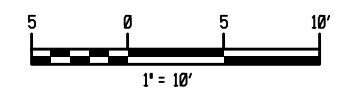
SHEET 60F1 OF 171



BUILT-UP RAMP DETAL - STA. M 25+11 RT



BUILT-UP RAMP DETAL - STA. M 28+49 RT

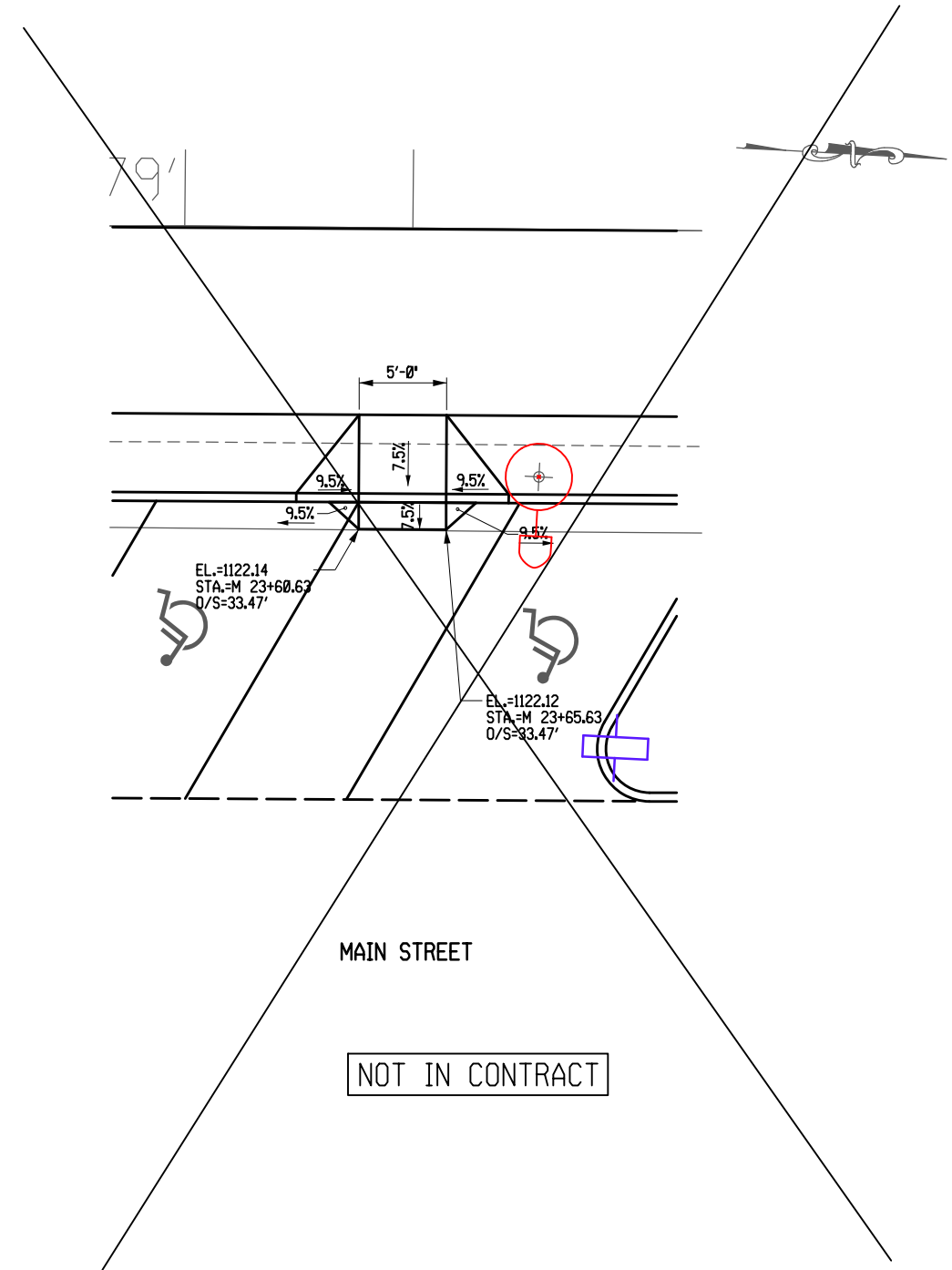


NOTE:  
1. FOR LANDSCAPE DESIGN AT RAMPS SEE DWGS. LA-1 TO LA-8.

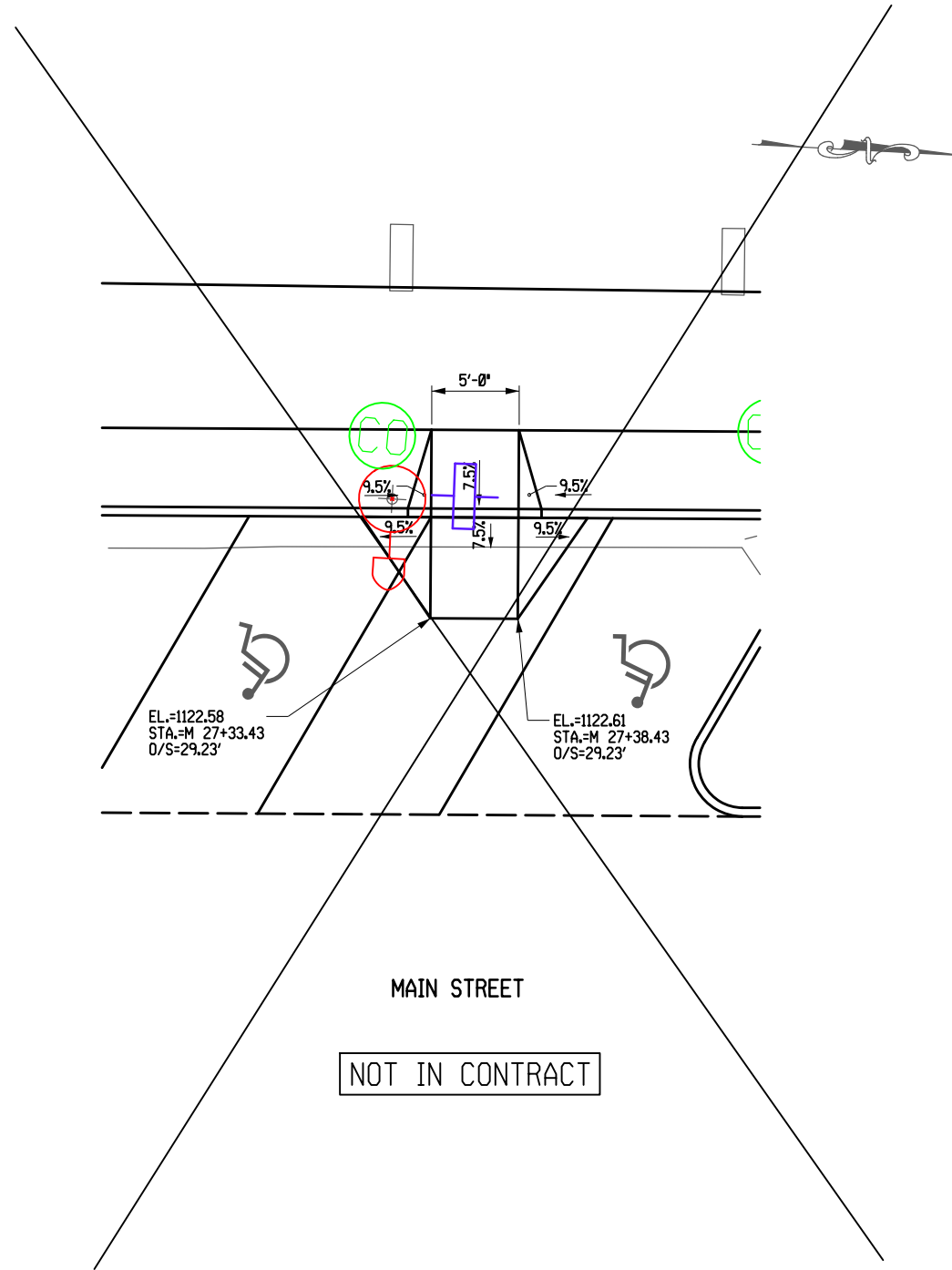
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16-DEC-2022 15:12 JAYMES

PROJECT MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK		TITLE OF DRAWING CURB RAMP DESIGN	
DRAWING NO. <b>RMD-14</b>		SHEET 61F1 OF 171	
PROJECT NO. 200395		PROJECT MANAGER T. FAULKNER	
DRAWN BY C. CLARK		SCALE AS SHOWN	
ISSUE DATE FEB. 2022		ISSUE DATE FEB. 2022	
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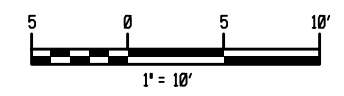
BUILT-UP RAMP DETAL - STA.M 23+63 LT



BUILT-UP RAMP DETAL - STA.M 27+36 LT

200395.dgn RMD-15.F1.dgn  
16-DEC-2022 15:12 \*TIME\*  
Jaymee

NOTE:  
1. FOR LANDSCAPE DESIGN AT RAMPS SEE DWGS. LA-1 TO LA-8.



REV	DESCRIPTION	DATE	BY
1	FC3 CURB RAMP REVISIONS	12/9/22	JNT
2			
3			
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7			

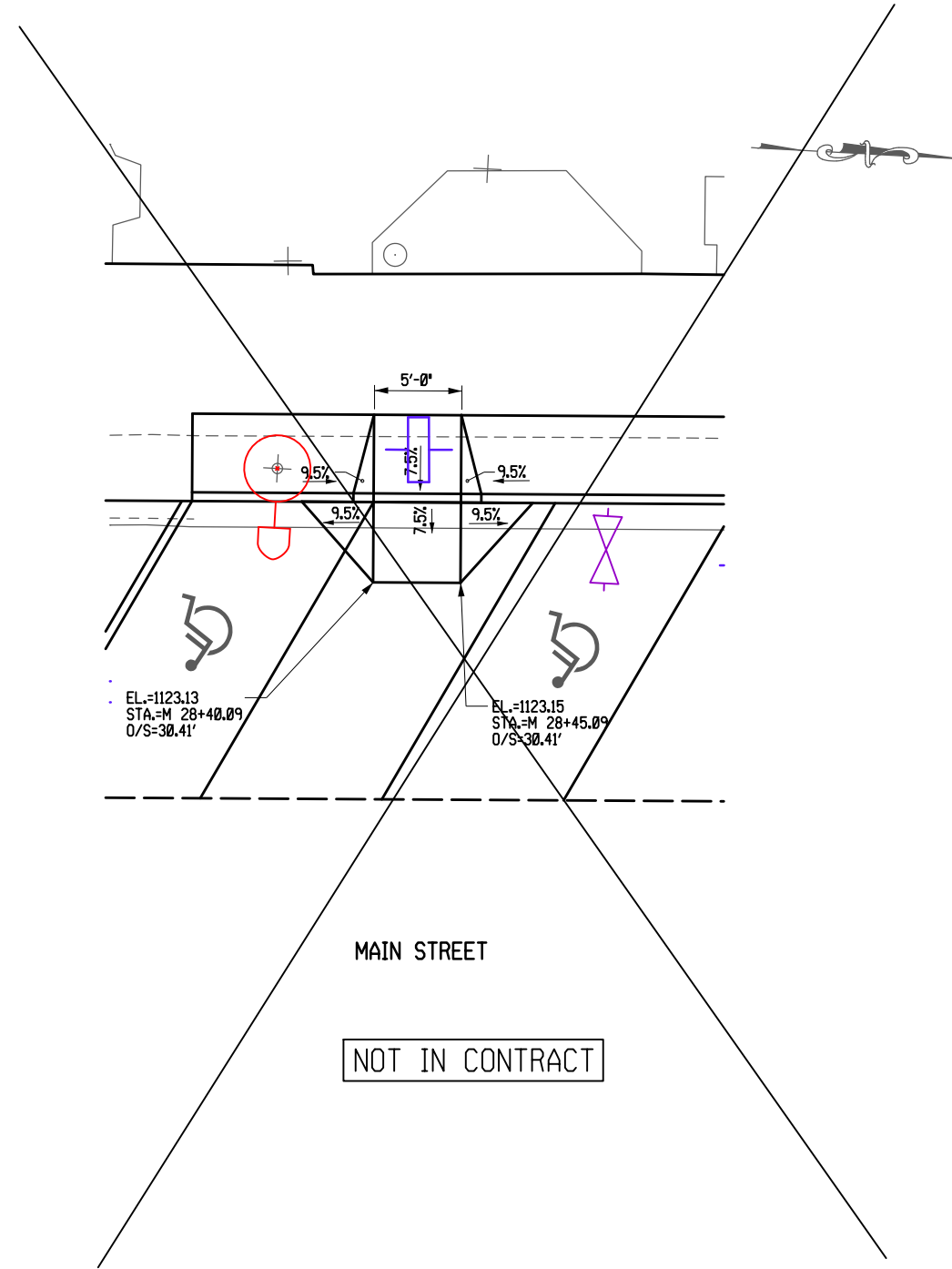
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modify any drawing or plan prepared  
by a professional engineer or land  
surveyor, without the written  
consent of the professional engineer or  
land surveyor, is a violation of the  
Education Law, and a specific violation  
of the contract.

EA PROJECT NO.  
200395  
PROJECT MANAGER  
T. FAULKNER  
DRAWN BY  
C. CLARK  
SCALE  
AS SHOWN  
ISSUE DATE  
FEB. 2022



PROJECT  
MAIN STREET UTILITY  
IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK  
TITLE OF DRAWING  
CURB RAMP DESIGN

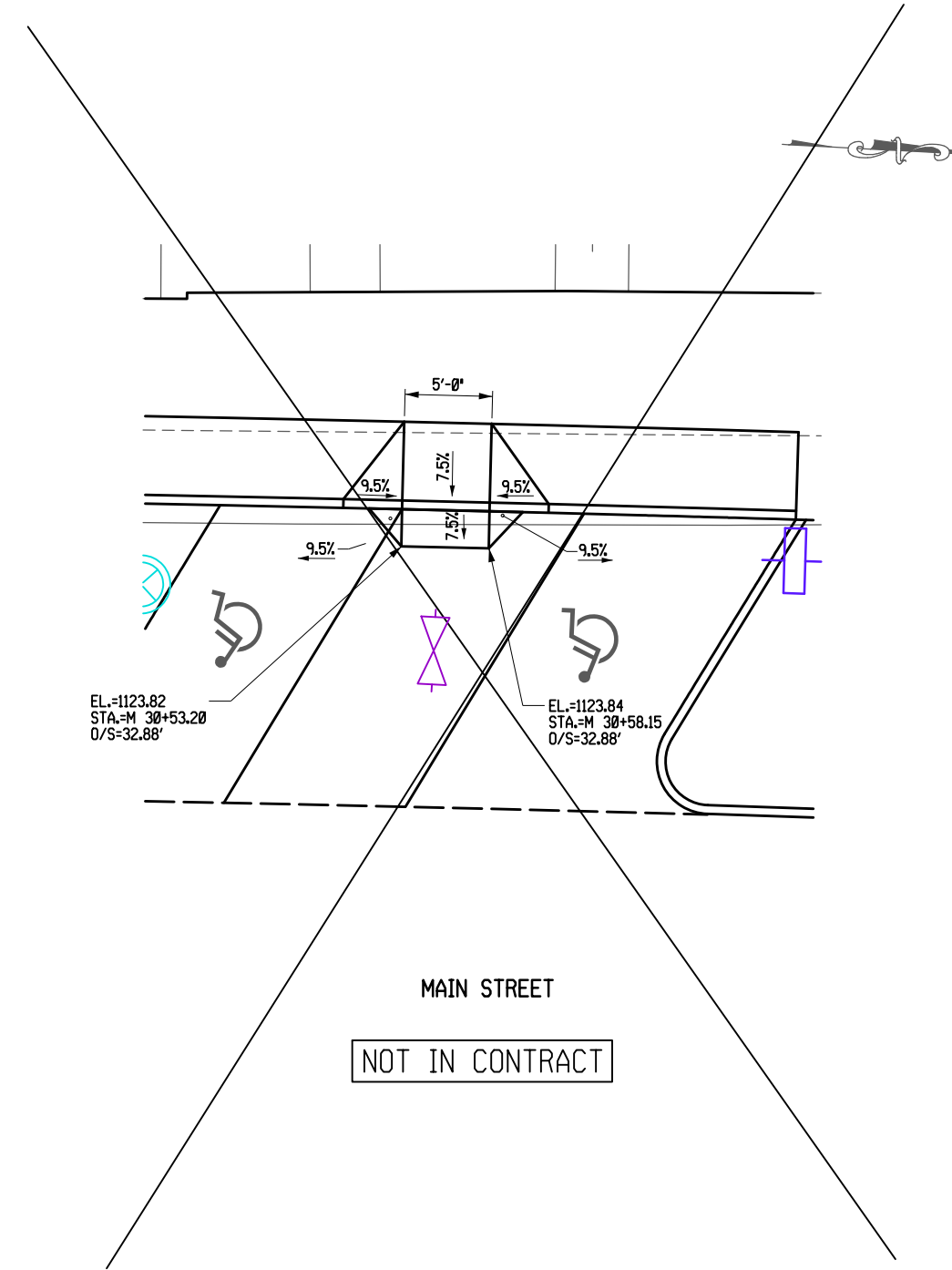
DRAWING NO.  
**RMD-15**  
SHEET 62F1 OF 171



EL.=1123.13  
STA.=M 28+40.09  
O/S=30.41'

EL.=1123.15  
STA.=M 28+45.09  
O/S=30.41'

BUILT-UP RAMP DETAL - STA.M 28+43 LT



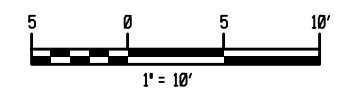
EL.=1123.82  
STA.=M 30+53.20  
O/S=32.88'

EL.=1123.84  
STA.=M 30+58.15  
O/S=32.88'

BUILT-UP RAMP DETAL - STA.M 30+56 LT

200315\_sph\_RMD-16.F1.dgn  
16-DEC-2022 15:13 JAYMES

NOTE:  
1. FOR LANDSCAPE DESIGN AT RAMPS SEE DWGS. LA-1 TO LA-8.



REV	DESCRIPTION	DATE	BY
7			
6			
5			
4			
3			
2			
1	FC3 CURB RAMP REVISIONS	12/9/22	JNT

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SCALE  
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ISSUE DATE  
FEB. 2022



PROJECT  
MAIN STREET UTILITY  
IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK

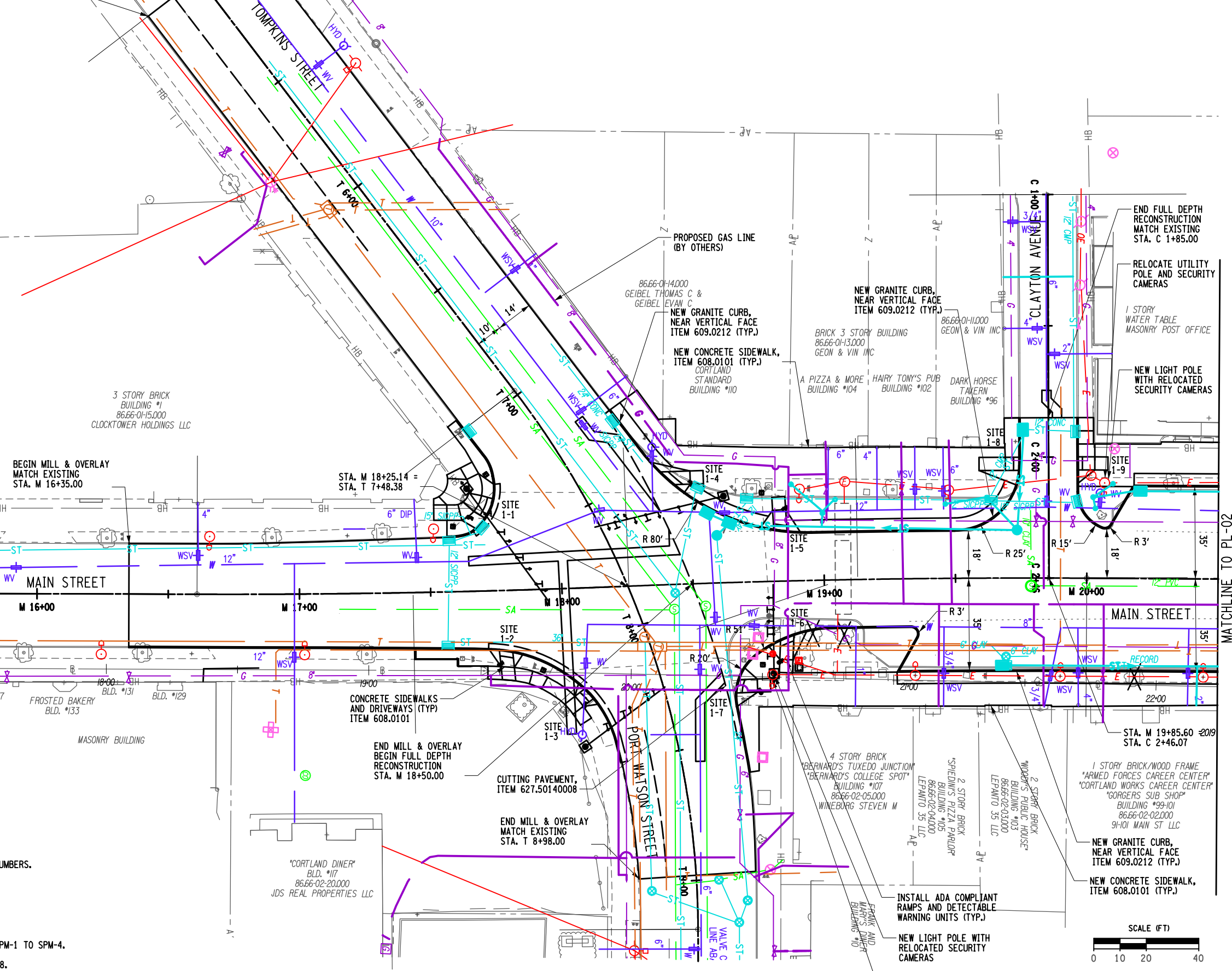
TITLE OF DRAWING  
CURB RAMP DESIGN

DRAWING NO.  
**RMD-16**  
SHEET 63F1 OF 171





END MILL & OVERLAY  
MATCH EXISTING  
STA. T 5+00.00



STONE LOUNGE  
BLD. #128

BEGIN MILL & OVERLAY  
MATCH EXISTING  
STA. M 16+35.00

STA. M 18+25.14 =  
STA. T 7+48.38

MAIN STREET

15+38

M 16+00

M 17+00

M 18+00

M 19+00

MAIN STREET

M 20+00

BRICK BLD. #137

FROSTED BAKERY  
BLD. #133

MASONRY BUILDING

CONCRETE SIDEWALKS  
AND DRIVEWAYS (TYP.)  
ITEM 608.0101

END MILL & OVERLAY  
BEGIN FULL DEPTH  
RECONSTRUCTION  
STA. M 18+50.00

CUTTING PAVEMENT,  
ITEM 627.50140008

END MILL & OVERLAY  
MATCH EXISTING  
STA. T 8+98.00

"CORTLAND DINER"  
BLD. #117  
86.66-02-20.000  
JDS REAL PROPERTIES LLC

86.66-01-14.000  
GEIBEL THOMAS C &  
GEIBEL EVAN C

NEW GRANITE CURB,  
NEAR VERTICAL FACE  
ITEM 609.0212 (TYP.)

NEW CONCRETE SIDEWALK,  
ITEM 608.0101 (TYP.)  
CORTLAND  
STANDARD  
BUILDING #110

BRICK 3 STORY BUILDING  
86.66-01-13.000  
GEON & VIN INC

A PIZZA & MORE  
BUILDING #104

HAIRY TONY'S PUB  
BUILDING #102

86.66-01-11.000  
GEON & VIN INC

DARK HORSE  
Tavern  
BUILDING #96

4 STORY BRICK  
"BERNARD'S TUXEDO JUNCTION"  
"BERNARD'S COLLEGE SPOT"  
BUILDING #107  
86.66-02-05.000  
WINEBERG STEVEN M

"SPEDINO'S PIZZA PARLOR"  
BUILDING #105  
86.66-02-04.000  
LEPANTO JS LLC

2 STORY BRICK  
"WAGNER'S PUBLIC HOUSE"  
BUILDING #103  
86.66-02-03.000  
LEPANTO JS LLC

1 STORY BRICK/WOOD FRAME  
"ARMED FORCES CAREER CENTER"  
"CORTLAND WORKS CAREER CENTER"  
"GORGERS SUB SHOP"  
BUILDING #99-101  
86.66-02-02.000  
91-101 MAIN ST LLC

NEW GRANITE CURB,  
NEAR VERTICAL FACE  
ITEM 609.0212 (TYP.)

NEW CONCRETE SIDEWALK,  
ITEM 608.0101 (TYP.)

INSTALL ADA COMPLIANT  
RAMPS AND DETECTABLE  
WARNING UNITS (TYP.)

NEW LIGHT POLE WITH  
RELOCATED SECURITY  
CAMERAS

RELOCATE SECURITY  
CAMERA, ITEM 680.99470025

END FULL DEPTH  
RECONSTRUCTION  
MATCH EXISTING  
STA. C 1+85.00

RELOCATE UTILITY  
POLE AND SECURITY  
CAMERAS

1 STORY  
WATER TABLE  
MASONRY POST OFFICE

NEW LIGHT POLE  
WITH RELOCATED  
SECURITY CAMERAS

MATCHLINE TO PL-02

**LEGEND**

X TREE REMOVAL, SEE TABLE FOR ITEM NUMBERS.

- NOTE:**
1. FOR LANDSCAPE PLANS SEE DWGS. LA-1 TO LA-8.
  2. FOR UTILITY DRAWINGS SEE DWGS. UT-1 TO UT-8.
  3. FOR SIGNS AND PAVEMENT MARKINGS SEE DWGS. SPM-1 TO SPM-4.
  4. FOR WATERLINE PLANS SEE DWGS. WPL-1 TO WPL-8.

200395.dwg, PL-01.dwg  
28-MAR-2023 12:46 JAYMES

REV	DESCRIPTION	DATE	BY
7			
6			
5			
4			
3			
2	CURB LINE CHANGES	3/17/23	JNT
1	FC3 DRAINAGE, CURB RAMPS	12/9/22	JNT

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200395  
PROJECT MANAGER  
T. FAULKNER  
DRAWN BY  
C. CLARK  
SCALE  
AS SHOWN  
ISSUE DATE  
FEB. 2022

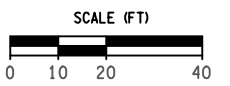


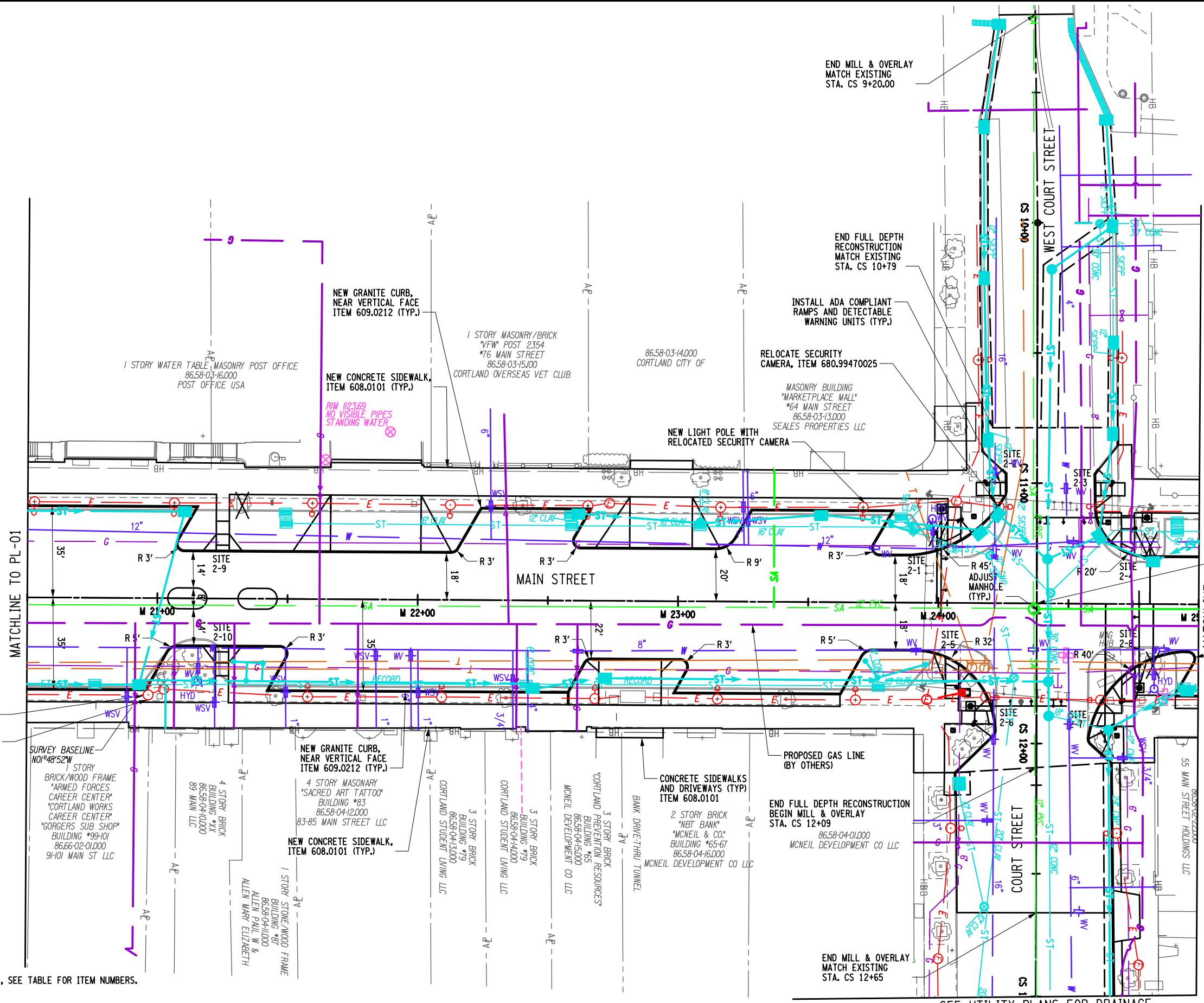
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PROJECT  
MAIN STREET UTILITY  
IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK

TITLE OF DRAWING  
ROADWAY PLAN

DRAWING NO.  
**PL-01**



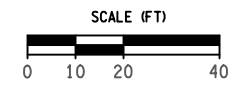


**LEGEND**

X TREE REMOVAL, SEE TABLE FOR ITEM NUMBERS.

**NOTE:**

1. FOR LANDSCAPE PLANS SEE DWGS. LA-1 TO LA-8.
2. FOR UTILITY DRAWINGS SEE DWGS. UT-1 TO UT-8.
3. FOR SIGNS AND PAVEMENT MARKINGS SEE DWGS. SPM-1 TO SPM-4.
4. FOR WATERLINE PLANS SEE DWGS. WPL-1 TO WPL-8.



SEE UTILITY PLANS FOR DRAINAGE  
CONTINUED ON UT-08

REV	DESCRIPTION	DATE	BY
7			
6			
5			
4	CURB LINE CHANGES	3/17/23	JNT
3	FC3 DRAINAGE, CURB RAMPS	12/9/22	JNT
2	DRIVEWAY REVISION	9/28/22	JNT
1			

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and a specific description  
of the operation.

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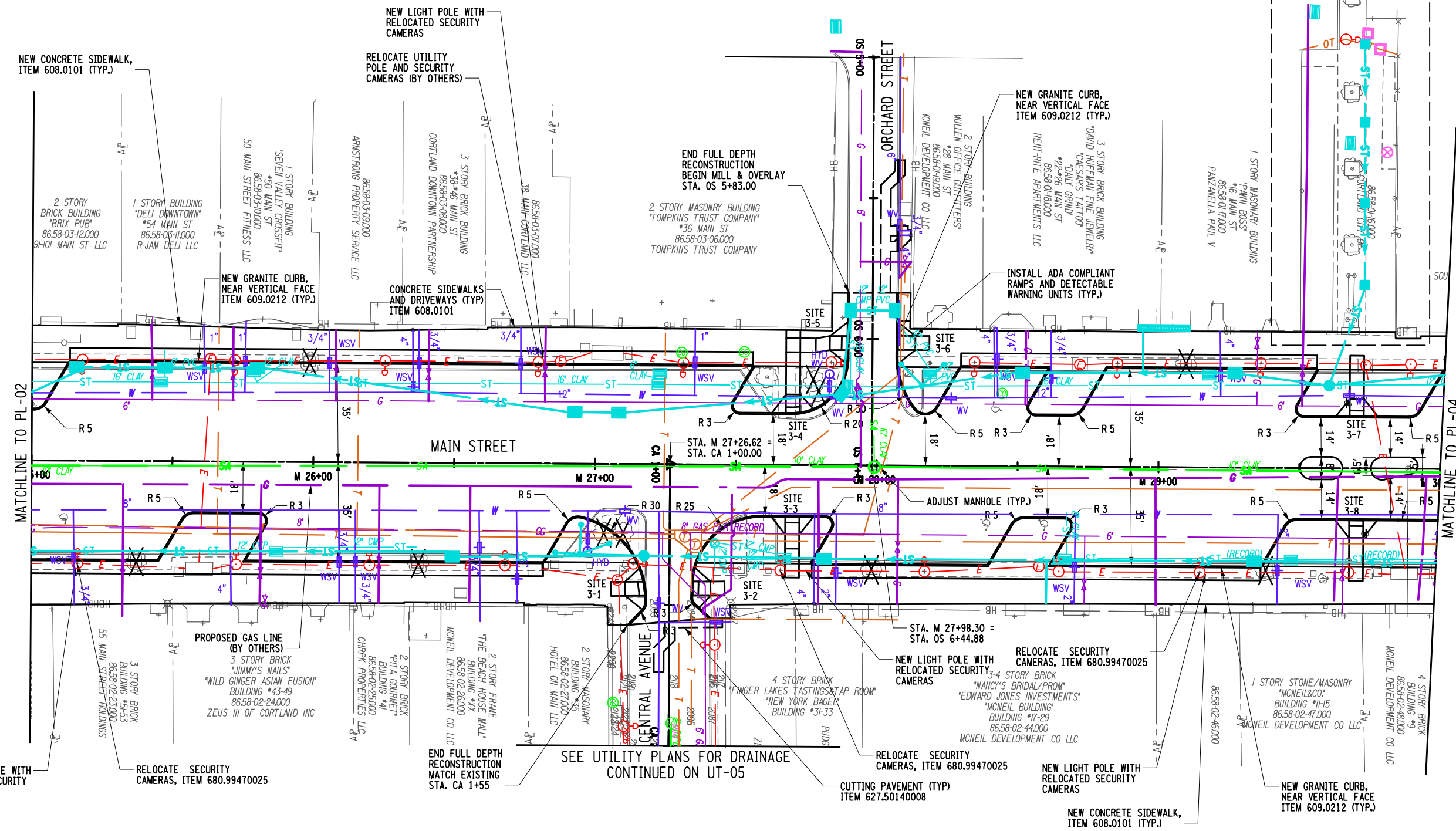
PROJECT  
MAIN STREET UTILITY  
IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK

TITLE OF DRAWING  
ROADWAY PLAN

DRAWING NO.  
**PL-02**  
SHEET 65F3 OF 171

200395\_sph\_PL-02\_F3.dgn  
28-MAR-2023 12:47  
JFaymes

SEE DWG. LA-4 FOR PROPOSED WORK



MATCHLINE TO PL-02

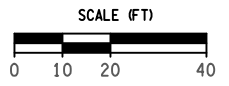
MATCHLINE TO PL-04

**LEGEND**

X TREE REMOVAL, SEE TABLE FOR ITEM NUMBERS.

**NOTE:**

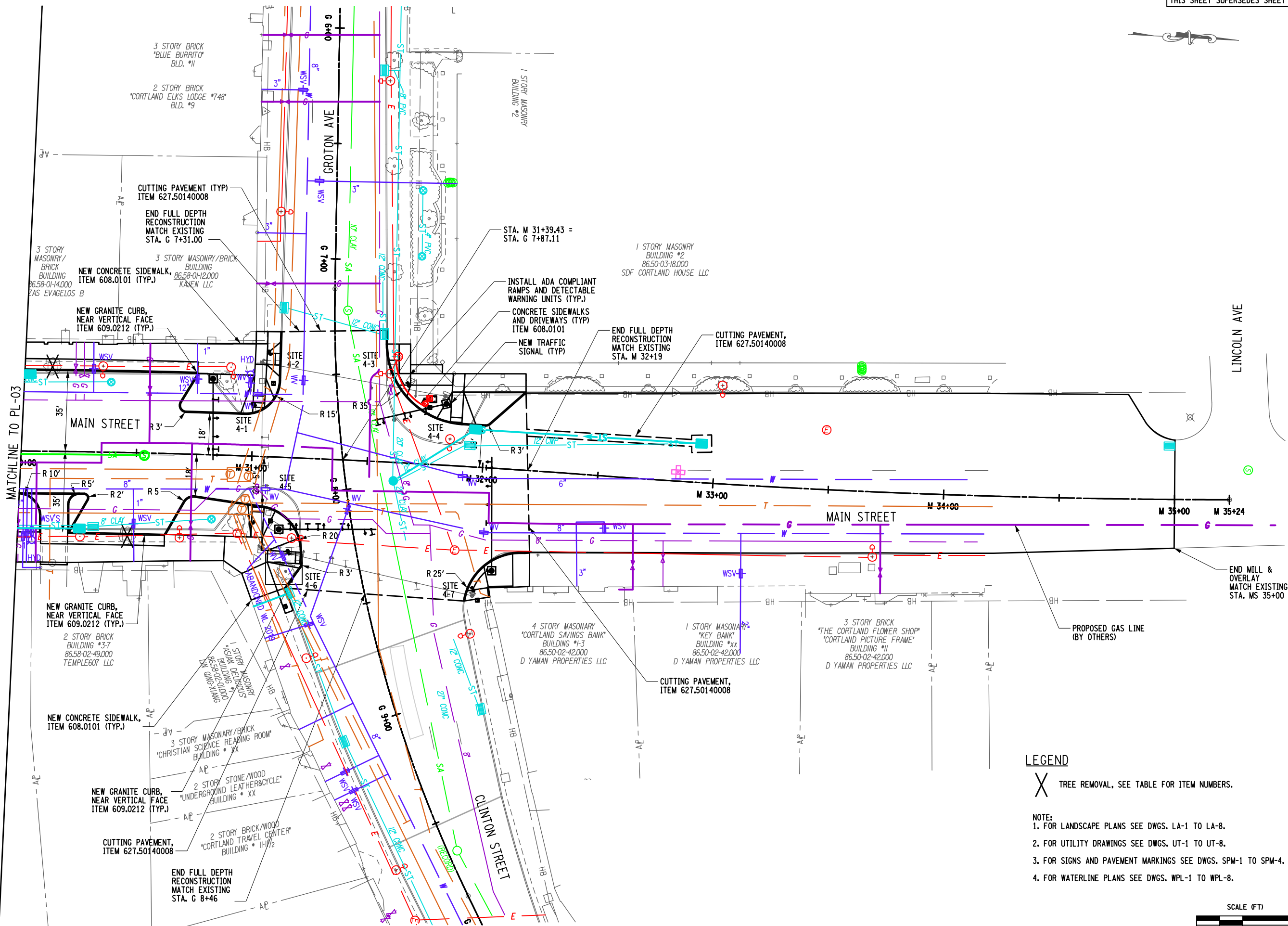
1. FOR LANDSCAPE PLANS SEE DWGS. LA-1 TO LA-8.
2. FOR UTILITY DRAWINGS SEE DWGS. UT-1 TO UT-8.
3. FOR SIGNS AND PAVEMENT MARKINGS SEE DWGS. SPM-1 TO SPM-4.
4. FOR WATERLINE PLANS SEE DWGS. WPL-1 TO WPL-8.



PROJECT MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK		TITLE OF DRAWING ROADWAY PLAN	
DRAWING NO. <b>PL-03</b>		SHEET 66F3 OF 171	
PROJECT NO. 200395	PROJECT MANAGER T. FAULKNER	DRAWN BY C. CLARK	SCALE AS SHOWN
ISSUE DATE FEB. 2022		DATE 12/9/22	
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REV 1 FC3 DRAINAGE, CURB RAMPS		DATE 12/9/22	
REV 2 CURB LINE CHANGES		DATE 3/17/23	
REV 3 CURB LINE/DRAINAGE CHANGES		DATE 2/15/24	
REV 4		DATE 3/17/23	
REV 5		DATE 3/17/23	
REV 6		DATE 3/17/23	
REV 7		DATE 3/17/23	



H:\P\2024\200395-08-Main\_Street\_Improvement\_CAD\CAD\CUT\200395-08-PL-03.F3.dgn  
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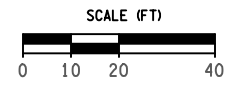


**LEGEND**

X TREE REMOVAL, SEE TABLE FOR ITEM NUMBERS.

**NOTE:**

1. FOR LANDSCAPE PLANS SEE DWGS. LA-1 TO LA-8.
2. FOR UTILITY DRAWINGS SEE DWGS. UT-1 TO UT-8.
3. FOR SIGNS AND PAVEMENT MARKINGS SEE DWGS. SPM-1 TO SPM-4.
4. FOR WATERLINE PLANS SEE DWGS. WPL-1 TO WPL-8.



200395.sph\_PL-04\_F2.dgn  
28-MAR-2023 12:47 JJaymes

REV	DESCRIPTION	DATE	BY
7			
6			
5			
4			
3			
2	CURB LINE CHANGES	3/27/23	JNT
1	FC3 DRAINAGE, CURB RAMPS	1/29/22	JNT

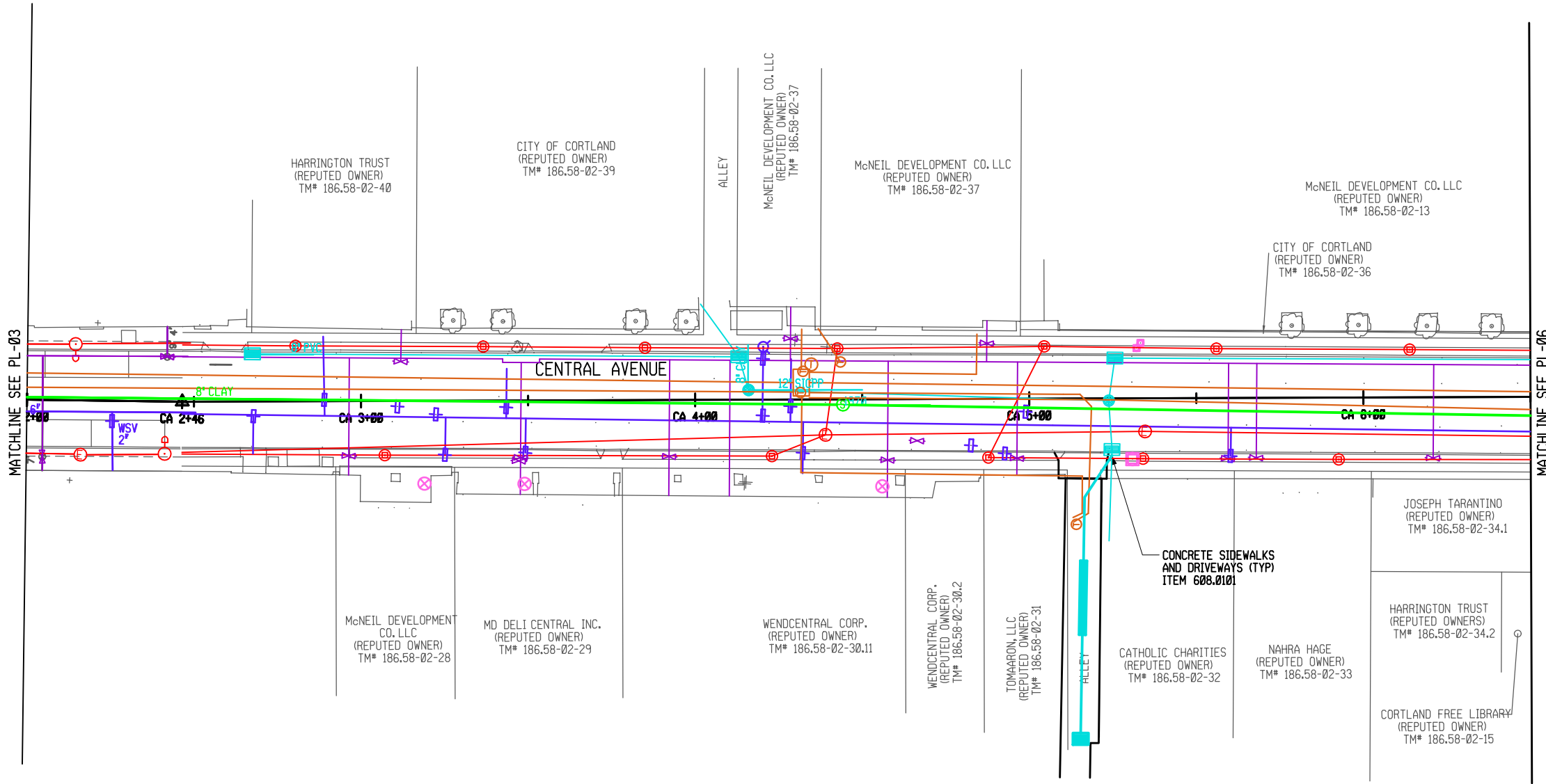
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SCALE  
AS SHOWN  
ISSUE DATE  
FEB. 2022



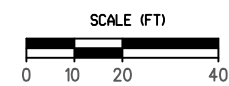
PROJECT  
MAIN STREET UTILITY  
IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK  
TITLE OF DRAWING  
ROADWAY PLAN

DRAWING NO.  
**PL-04**  
SHEET 67F2 OF 171



MATCHLINE SEE PL-03

MATCHLINE SEE PL-06



200315\_sph\_PL-05\_L1.dgn  
16-DEC-2022 15:13 JAY  
JAY

REV	DESCRIPTION	DATE	BY
1	FC3 DRAINAGE REVISION	12/9/22	JNT
2			
3			
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TM# 186.58-02-34.2

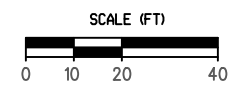
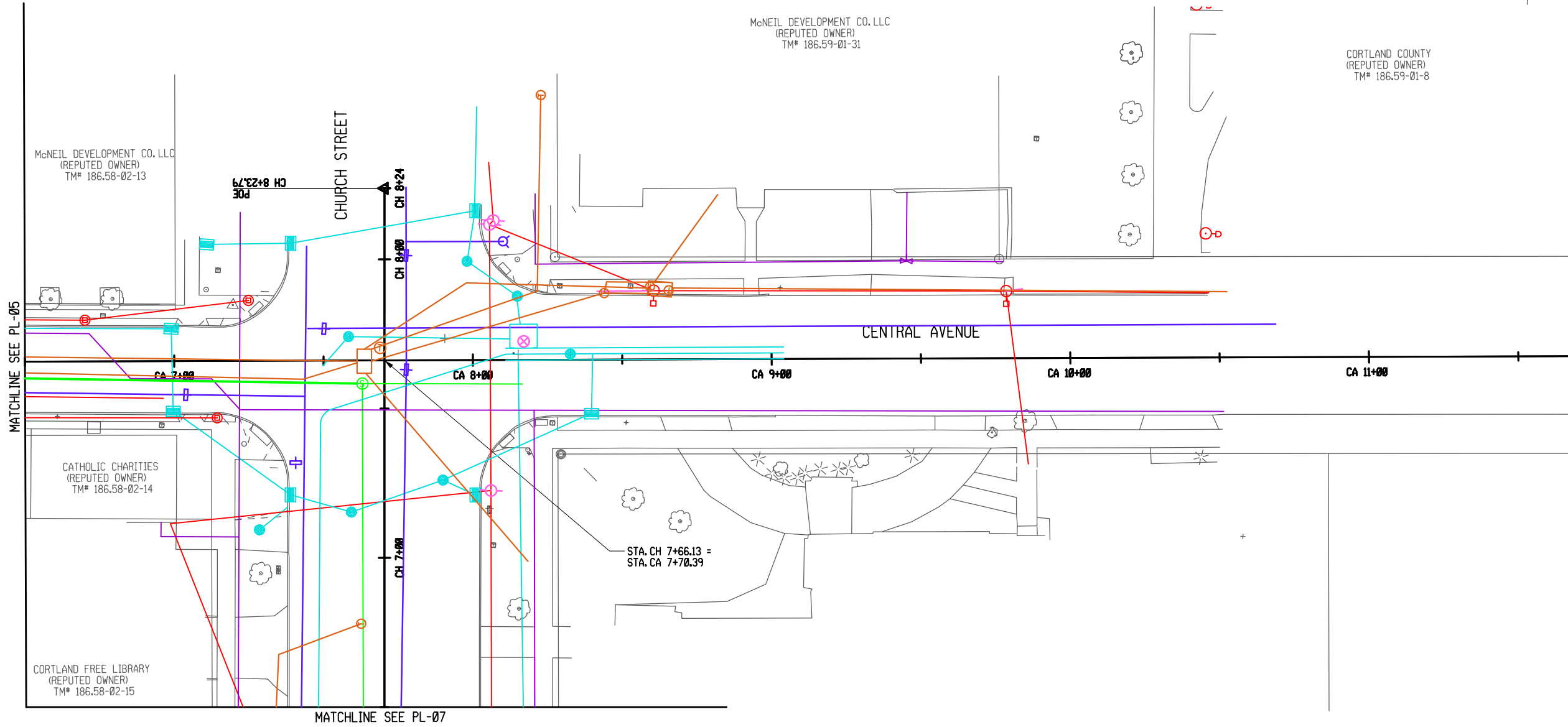
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CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK

TITLE OF DRAWING  
ROADWAY PLAN

DRAWING NO.  
**PL-05**

SHEET 68F1 OF 171



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16-DEC-2022 15:13 \*TIME\*  
Jaymes

REV	DESCRIPTION	DATE	BY
1	FC3 DRAINAGE REVISION	12/9/22	JNT
2			
3			
4			
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6			
7			

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200395  
PROJECT MANAGER  
T. FAULKNER  
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T. DAVIS  
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AS SHOWN  
ISSUE DATE  
FEB. 2022

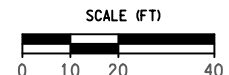
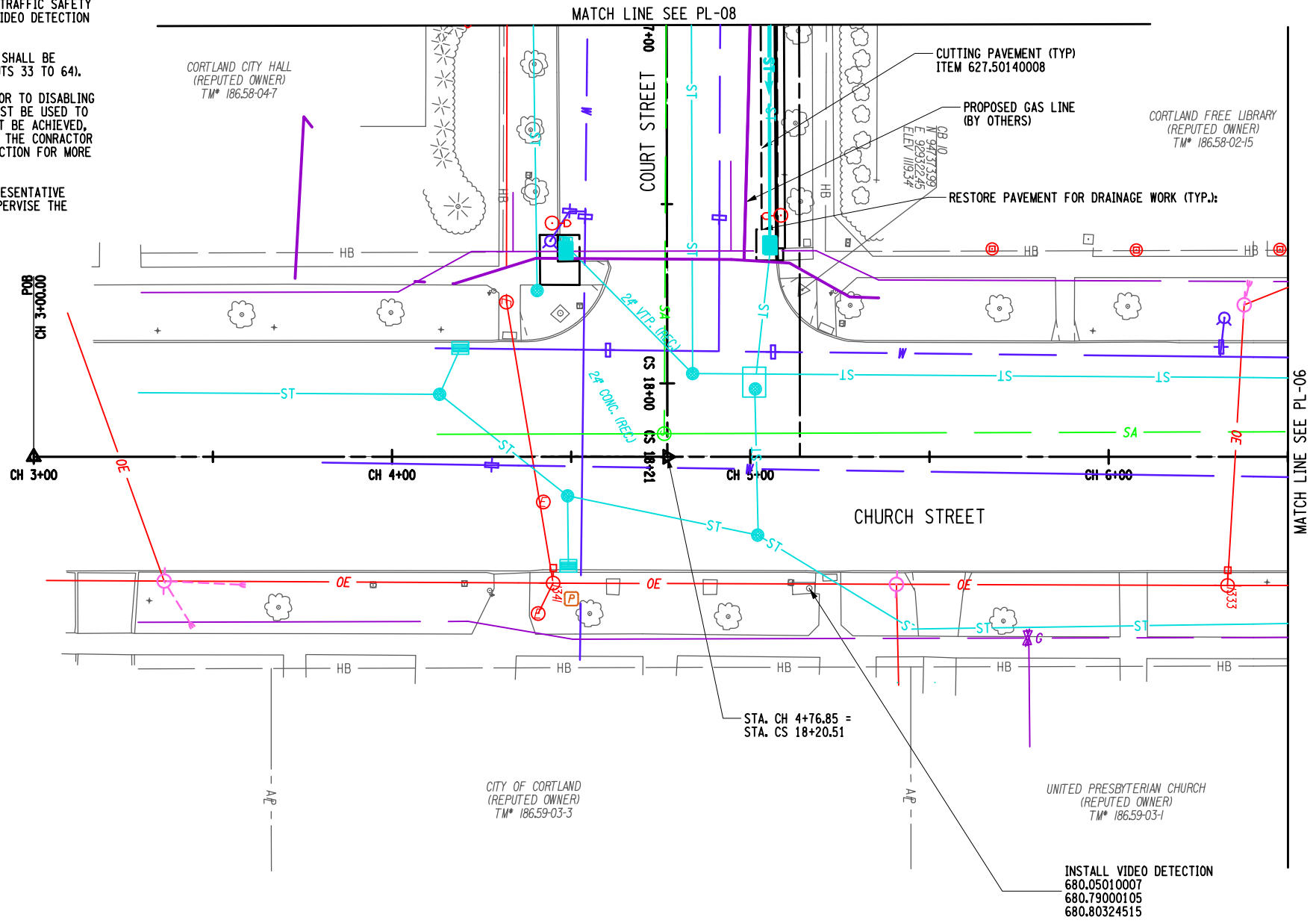


PROJECT  
MAIN STREET UTILITY  
IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK  
TITLE OF DRAWING  
ROADWAY PLAN

DRAWING NO.  
**PL-06**  
SHEET 69F1 OF 171

VIDEO DETECTION NOTES

1. THE CONTRACTOR SHALL SUBMIT CATALOG CUTS FOR ALL TRAFFIC SIGNAL ITEMS TO TRAFFIC SAFETY & MOBILITY GROUP FOR REVIEW AND APPROVAL.
2. ITEM 680.79000105 - REMOVE TRAFFIC SIGNAL INSTALLATION, LOCATION 01. THIS ITEM SHALL INCLUDE
  - A. DISCONNECTION OF ALL SHIELDED LEAD-IN WIRES FROM THEIR TERMINALS. THE DISCONNECTED WIRES SHALL THEN BE COILED UP AND ABANDONED IN THE PULLBOX CLOSEST TO THE CONTROLLER CABINET.
  - B. REMOVAL AND DELIVERY OF THE CONTROLLER CABINET, AND ALL ITS CONTENTS DIRECTLY TO STATE FORCES. PLEASE CONTACT NYSDOT TRAFFIC SIGNAL MAINTENANCE AT (315) 428-4064 TO SCHEDULE DROP OFF TIME TO THE NYSDOT SIGNAL SHOP IN NORTH SYRACUSE, NY. TRAFFIC SIGNAL MAINTENANCE SHALL VERIFY ALL SIGNAL EQUIPMENT WITH QUANTITIES THAT HAVE BEEN DELIVERED FOR THIS SPECIFIC LOCATION.
3. THE CONTRACTOR SHALL PROVIDE 14 DAYS NOTICE TO THE REGIONAL TRAFFIC SAFETY AND MOBILITY GROUP AT (315) 428-4064 PRIOR TO INSTALLING THE VIDEO DETECTION EQUIPMENT TO DETERMINE THE OPTIMAL DETECTOR LOCATION.
4. THE VIDEO DETECTION SYSTEM INSTALLED UNDER ITEM 680.05010007 SHALL BE CONNECTED TO THE CONTROLLER THROUGH THE SDLC CONNECTOR (INPUTS 33 TO 64).
5. THE VIDEO DETECTION SYSTEM MUST BE INSTALLED AND ENABLED PRIOR TO DISABLING THE EXISTING DETECTION SYSTEM. THE VIDEO DETECTION SYSTEM MUST BE USED TO ACTUATE THE SIGNAL DURING CONSTRUCTION STAGES. IF THIS CANNOT BE ACHIEVED, ALTERNATIVE METHOD OF VIDEO DETECTION MUST BE ESTABLISHED AT THE CONTRACTOR'S EXPENSE. THE INTERSECTION SHALL NOT REMAIN WITHOUT DETECTION FOR MORE THAN TWO DAYS.
6. THE MANUFACTURER OF THE VIDEO DETECTION SYSTEM OR THEIR REPRESENTATIVE SHALL DESIGN RADAR DETECTION SYSTEM LAYOUT/PLACEMENT AND SUPERVISE THE INSTALLATION AND TESTING OF THE RADAR DETECTION EQUIPMENT



REV	DESCRIPTION	DATE	BY
1	VIDEO DETECTION ADDED	10/19/22	AB
2	FC3 DRAINAGE REVISION	12/9/22	JNT
3	DRAINAGE REVISIONS	2/16/24	TRD

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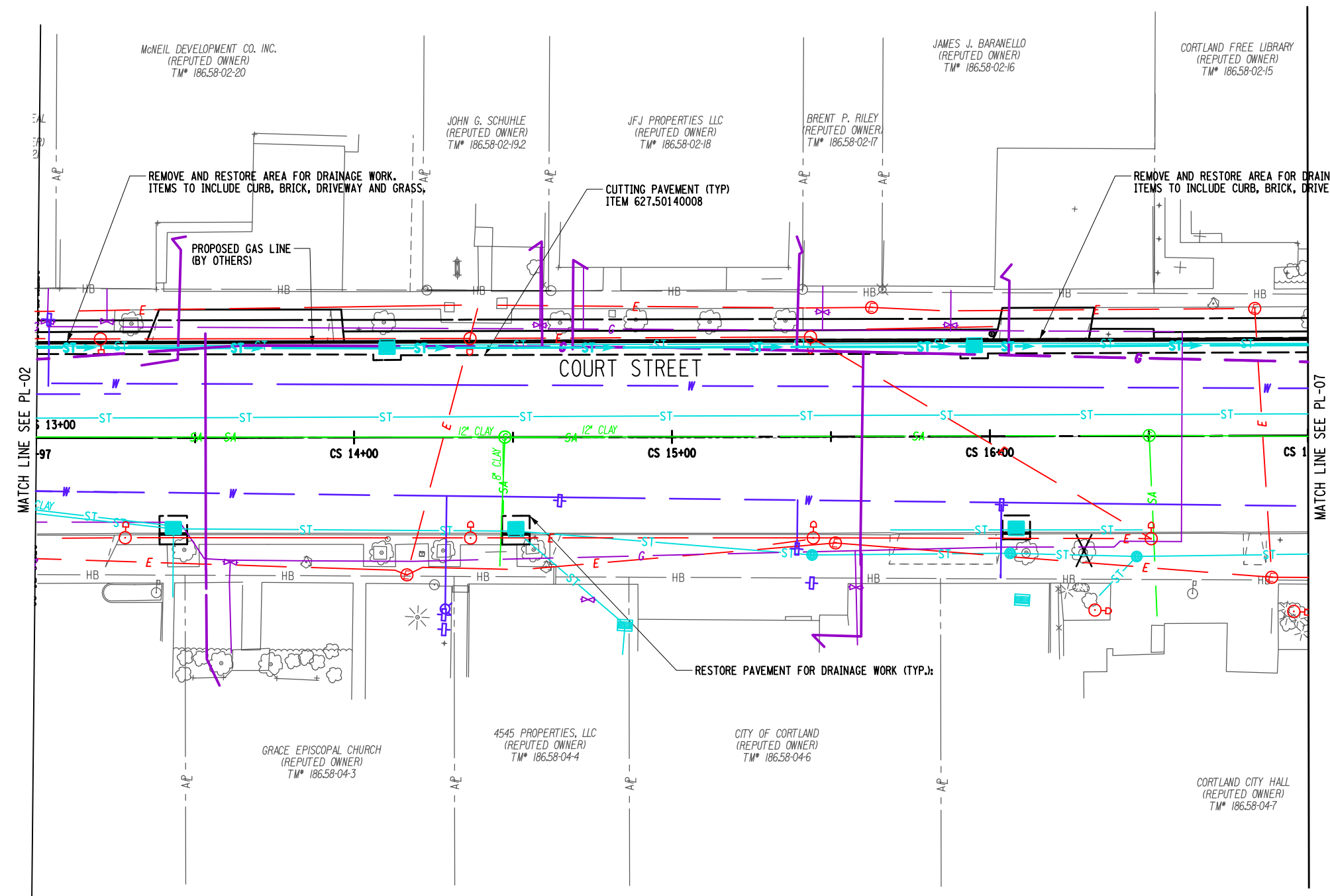
EA PROJECT NO.  
200395  
PROJECT MANAGER  
T. FAULKNER  
DRAWN BY  
T. DAVIS  
SCALE  
AS SHOWN  
ISSUE DATE  
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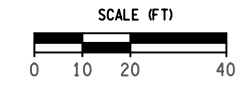
PROJECT  
MAIN STREET UTILITY  
IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK  
TITLE OF DRAWING  
ROADWAY PLAN

DRAWING NO.  
**PL-07**  
SHEET 70F3 OF 171

H:\P\01\0204\200395-08-Main\_Street\_Improvement\_CAD\CAD\CUT\200395-08-PL-07-F3.dgn  
 2/16/2024 5:55:00 PM T.mD



**LEGEND**  
 TREE REMOVAL, SEE TABLE FOR ITEM NUMBERS.



REV	DESCRIPTION	DATE	BY
1	FC3 DRAINAGE REVISION	12/9/22	JNT
2	FC3 DRAINAGE REVISION	2/16/24	TRD

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EA PROJECT NO. 200395  
 PROJECT MANAGER T. FAULKNER  
 DRAWN BY T. DAVIS  
 SCALE AS SHOWN  
 ISSUE DATE FEB. 2022

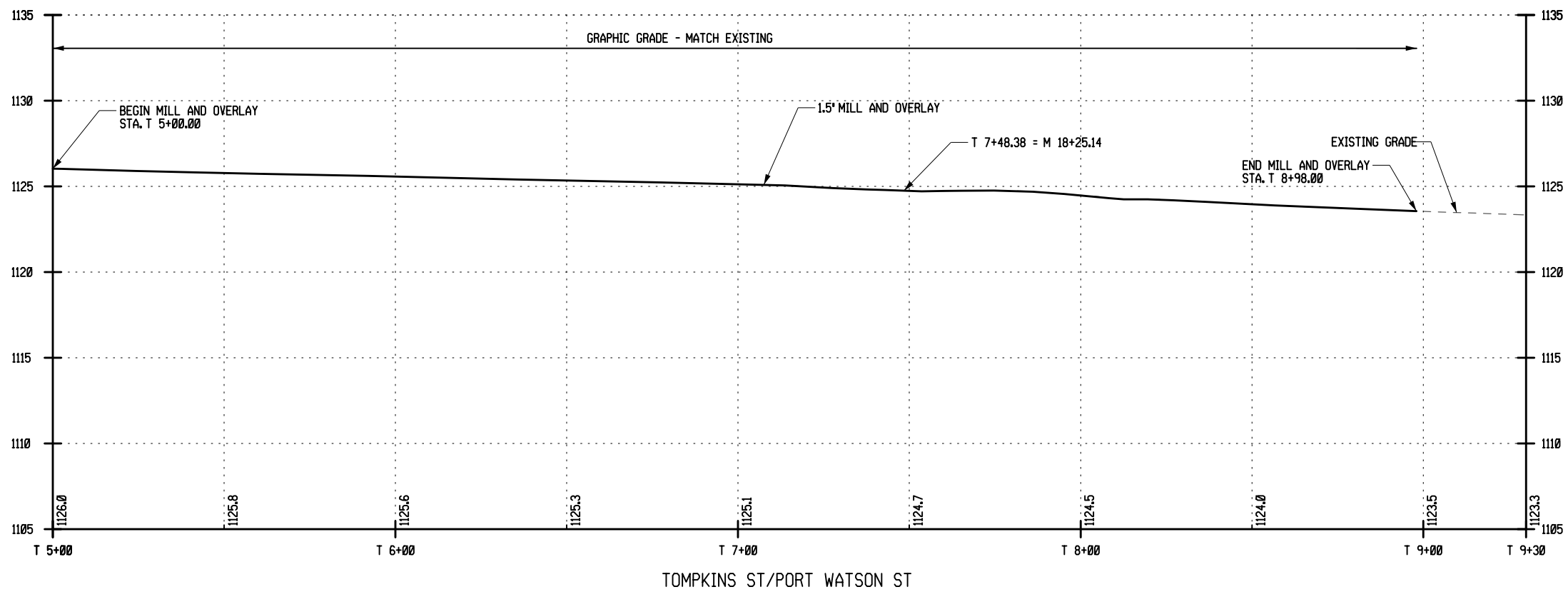
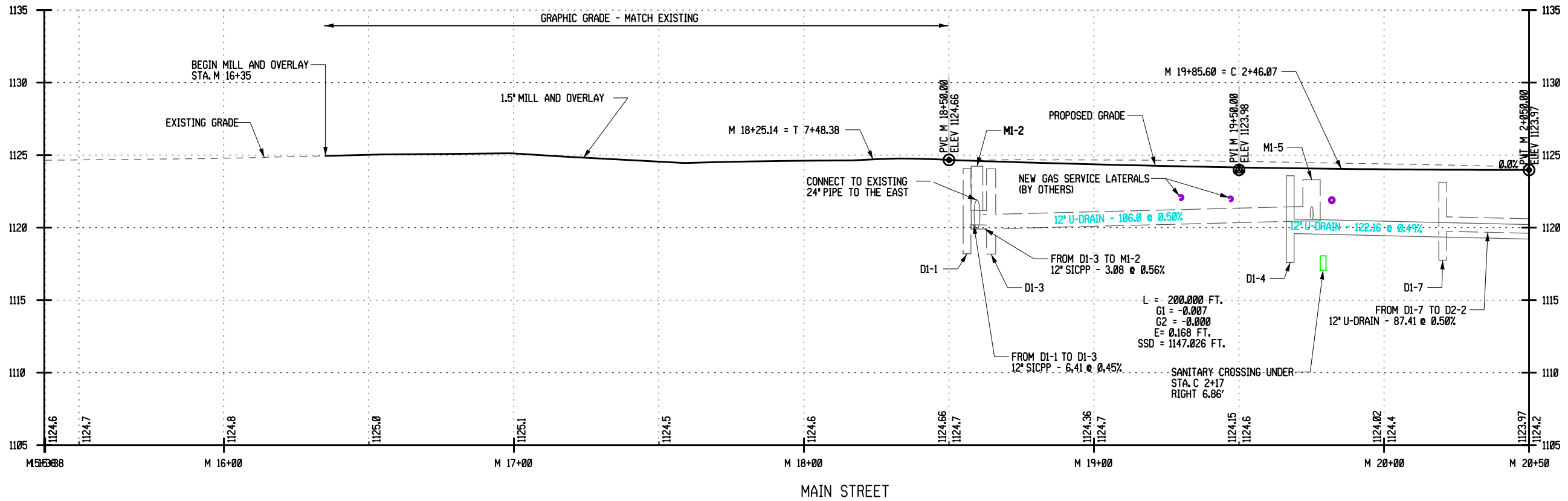


PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT  
 CITY OF CORTLAND  
 CORTLAND COUNTY, NEW YORK  
 TITLE OF DRAWING: ROADWAY PLAN

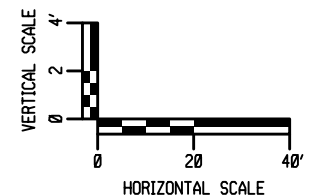
DRAWING NO. **PL-08**  
 SHEET 71F2 OF 171

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 2/16/2024 5:54:59 PM T.mD





LEGEND	
	DRAINAGE LT
	DRAINAGE RT



REV	DESCRIPTION	DATE	BY
1	DRAINAGE REVISIONS	9/12/22	JNT
2	FC3 DRAINAGE REVISION	12/9/22	JNT

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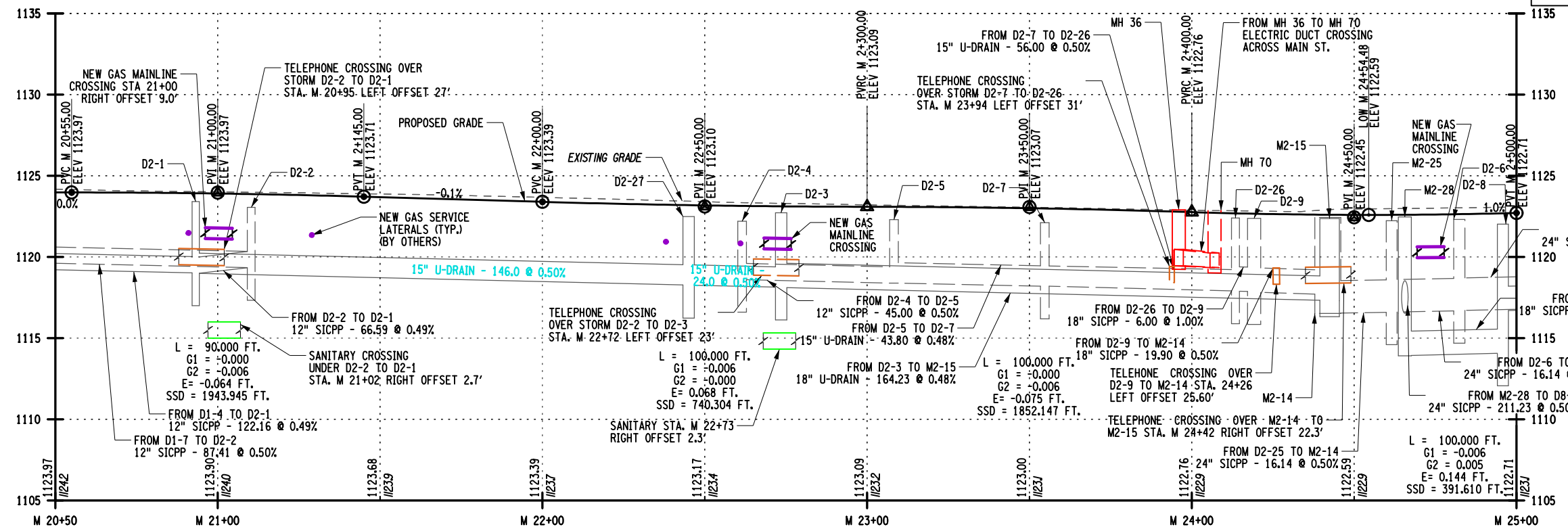
EA PROJECT NO.  
200395  
PROJECT MANAGER  
T. FAULKNER  
DRAWN BY  
C. CLARK  
SCALE  
AS SHOWN  
ISSUE DATE  
FEB. 2022



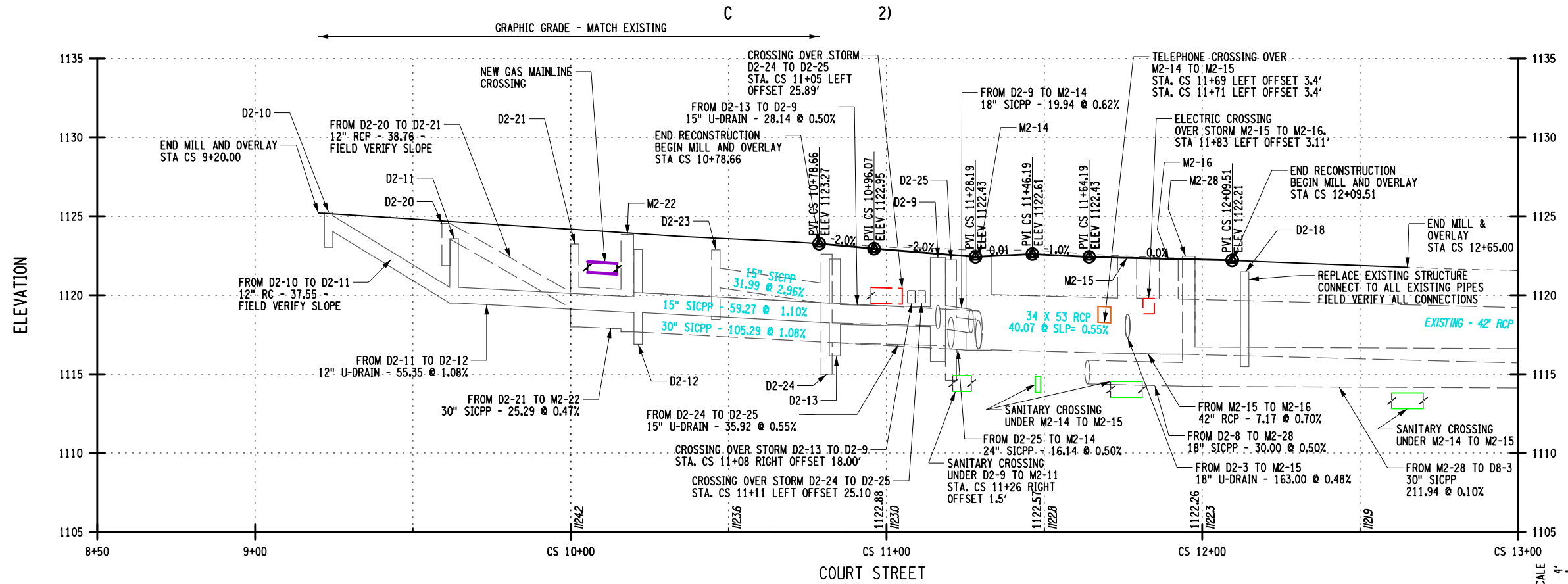
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PROJECT  
MAIN STREET UTILITY  
IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK  
TITLE OF DRAWING  
PROFILES

DRAWING NO.  
**PR-01**  
SHEET 72F2 OF 171

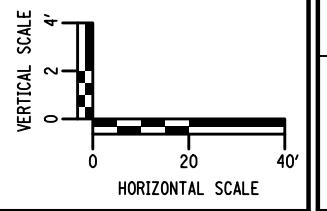


MAIN STREET



COURT STREET

LEGEND	
	DRAINAGE LT
	DRAINAGE RT



NO.	DATE	DESCRIPTION	REV
7			
6			
5	2/16/24	DRAINAGE REVISIONS	JNT
4	3/27/23	CURB LINE CHANGES	JNT
3	12/9/22	FC3 DRAINAGE REVISIONS	JNT
2	9/2/22	DRAINAGE REVISIONS	JNT
1			

PROJECT NO. 200395  
PROJECT MANAGER T. FAULKNER  
DRAWN BY C. CLARK  
SCALE AS SHOWN  
ISSUE DATE FEB. 2022

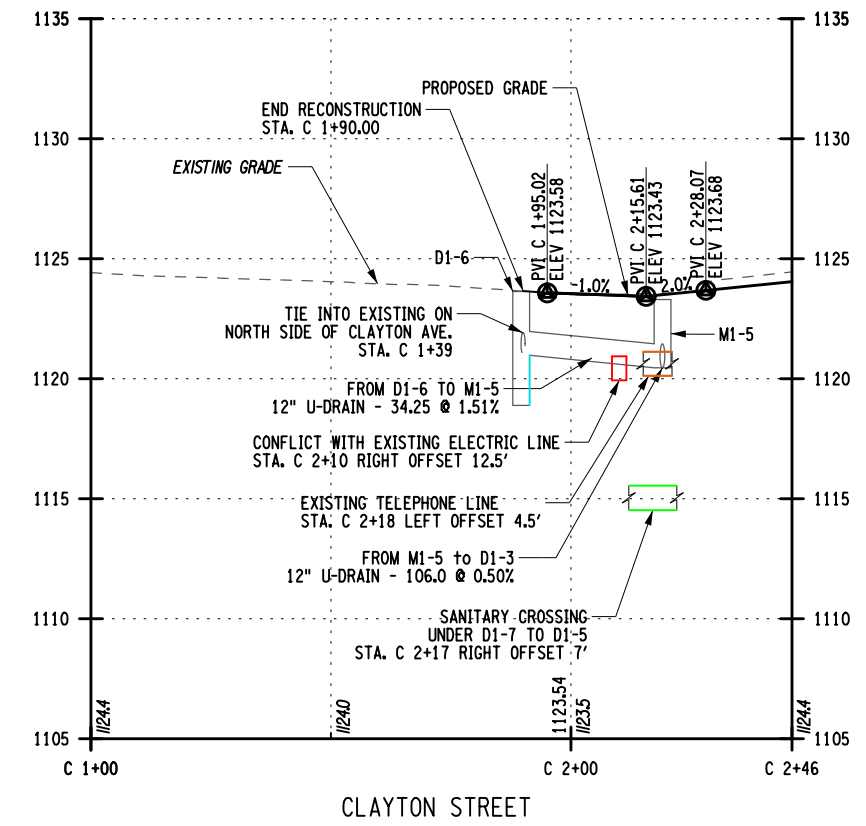
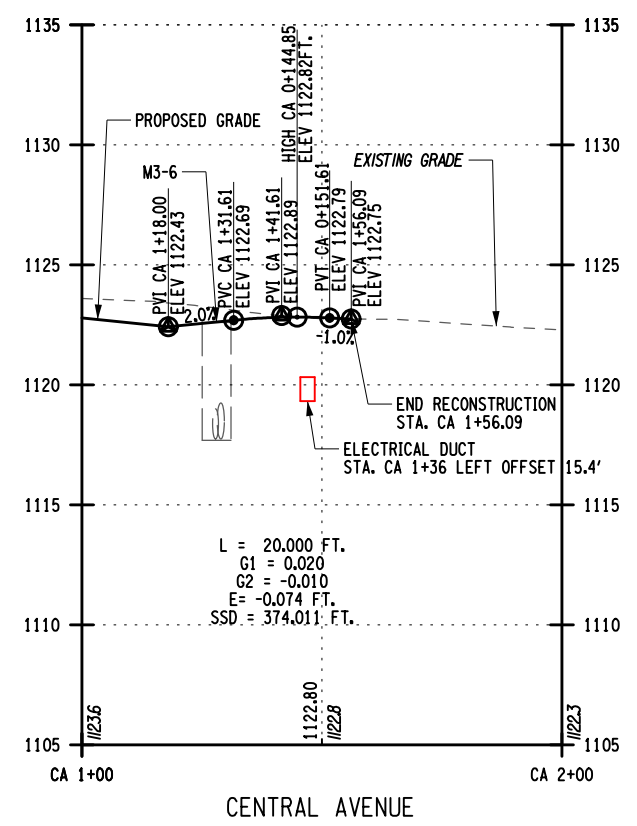
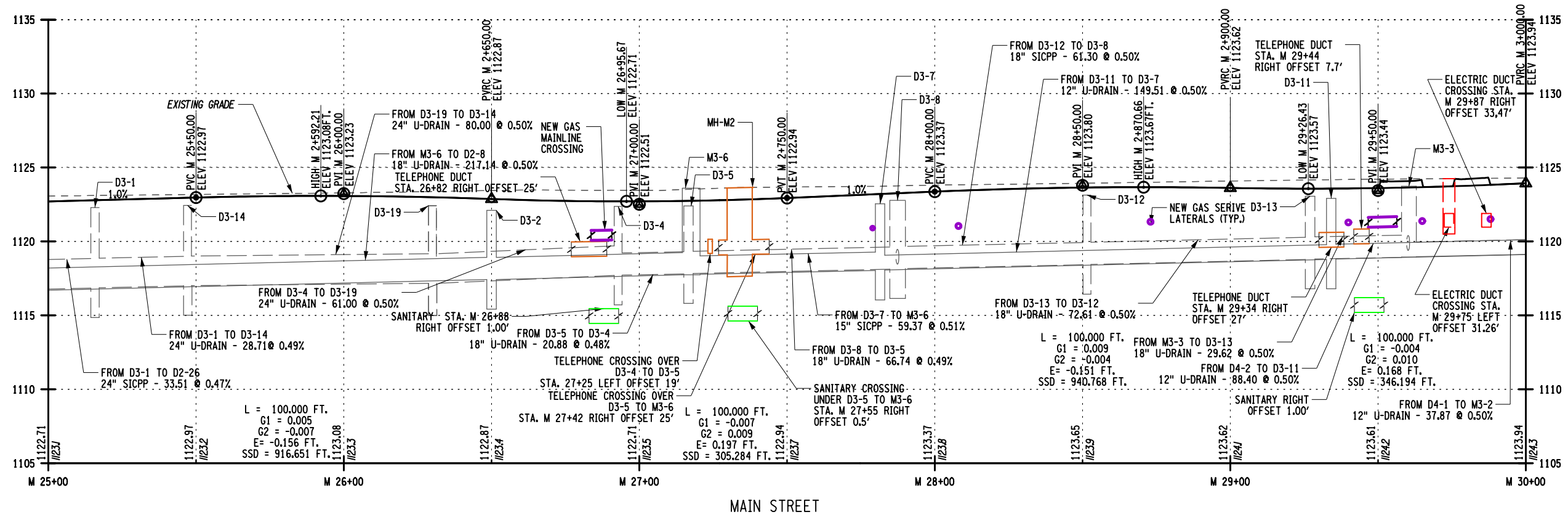
DATE BY



PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK

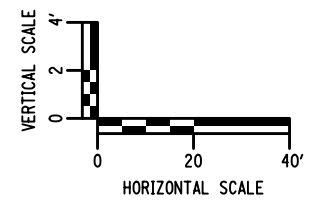
TITLE OF DRAWING: PROFILES

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 2/16/2024 5:55:02 PM T.mD



**LEGEND**

	DRAINAGE LT
	DRAINAGE RT



PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK

TITLE OF DRAWING: PROFILES

DRAWING NO.: PR-03

SHEET 74F3 OF 171

NO.	DATE	DESCRIPTION	BY
1	10/13/22	DRAINAGE REVISIONS	JNT
2	12/9/22	FC3 DRAINAGE REVISIONS	JNT
3	3/17/23	CURB LINE CHANGES	JNT
4			
5			
6			
7			

ISSUE DATE: FEB. 2022  
SCALE: AS SHOWN

DESIGNED BY: C. CLARK  
PROJECT MANAGER: T. FAULKNER  
DRAWN BY: C. CLARK

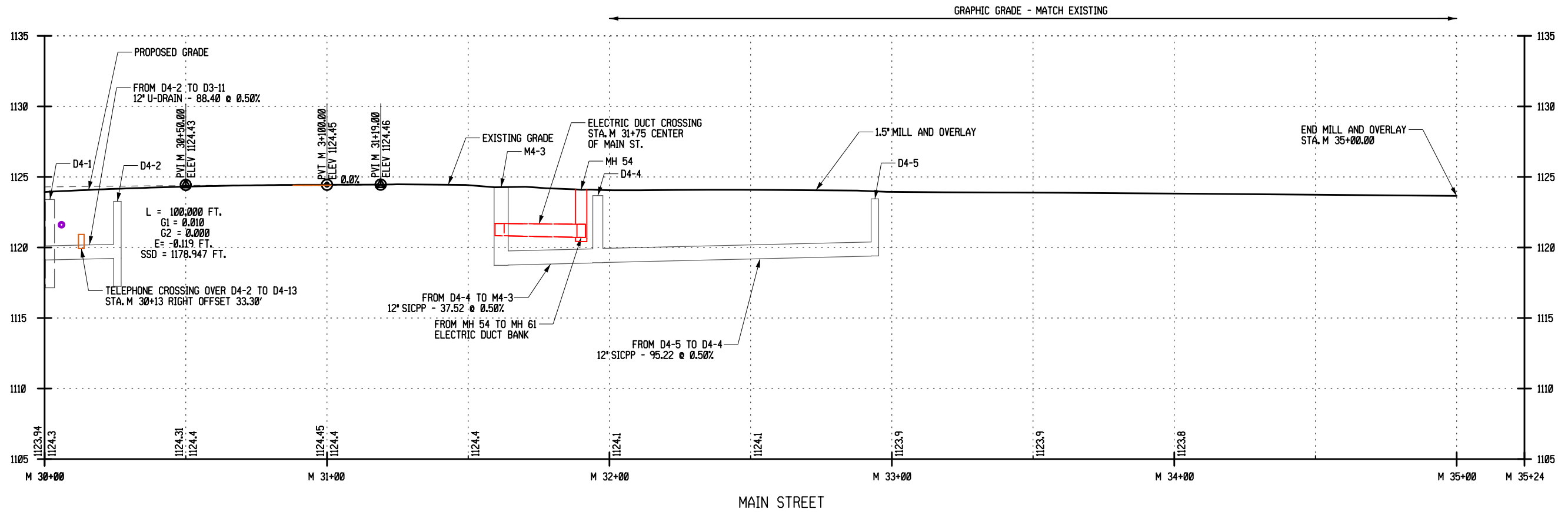
STATE OF NEW YORK  
PETER WOOD  
082814  
REGISTERED PROFESSIONAL ENGINEER

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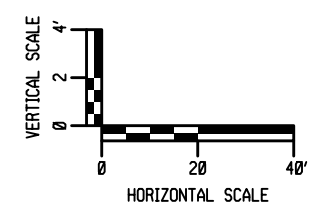
PROJECT NO. 200395  
PROJECT MANAGER: T. FAULKNER  
ISSUE DATE: FEB. 2022  
SCALE: AS SHOWN

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200395\_sph\_FR-03\_F3.dgn  
28-MAR-2023 12:47  
Jaymes

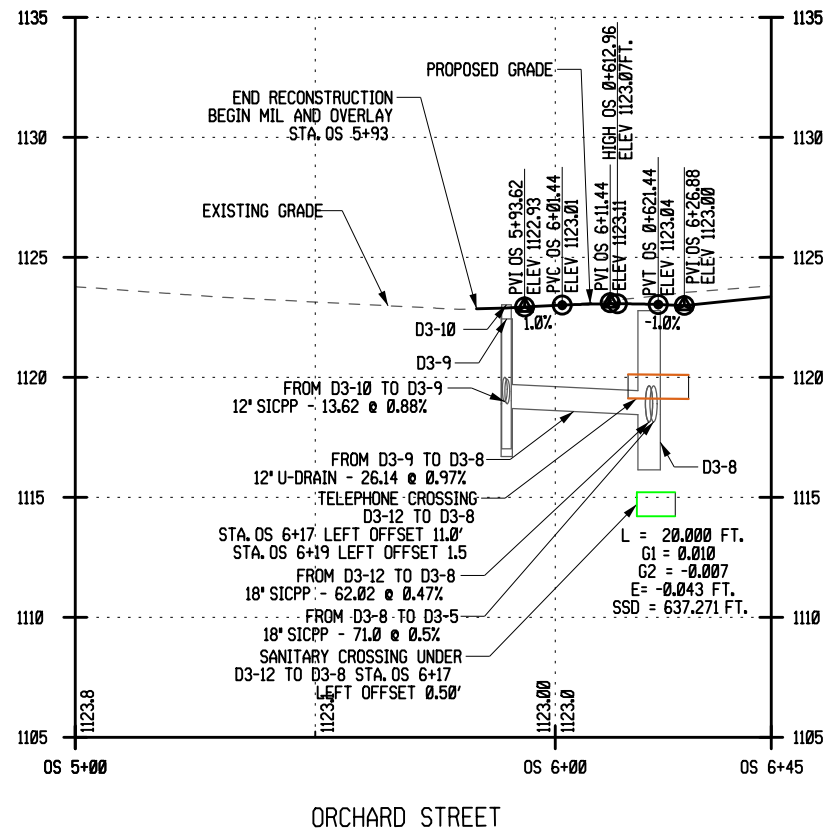
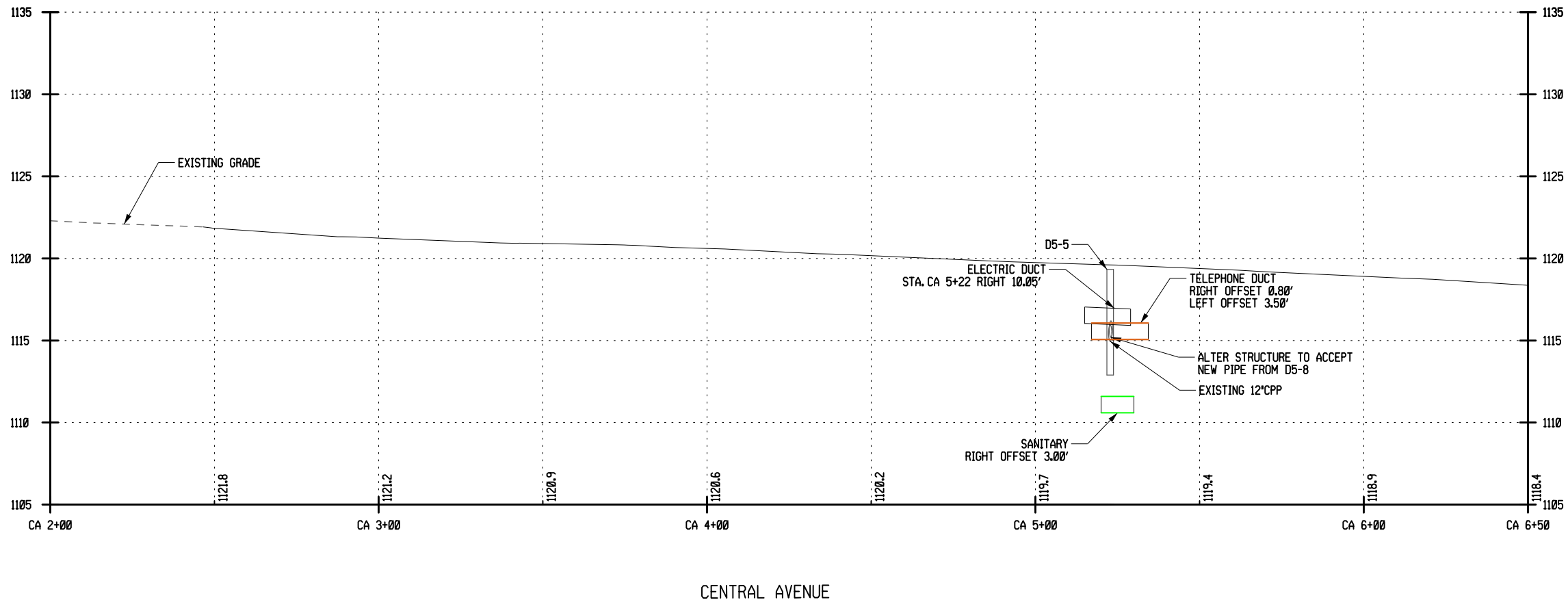


LEGEND	
	DRAINAGE LT
	DRAINAGE RT



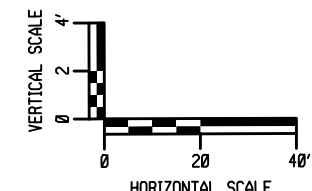
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16-DEC-2022 15:13 JAYMES

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<p>DRAWING NO. <b>PR-04</b></p>		<p>SHEET 75F1 OF 171</p>	
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**LEGEND**

---	DRAINAGE LT
---	DRAINAGE RT



REV	DESCRIPTION	DATE	BY
1	FC3 DRAINAGE REVISIONS	12/9/21	JNT
2	DRAINAGE REVISIONS	8/25/22	JNT
3			
4			
5			
6			
7			

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EA PROJECT NO.  
200395

PROJECT MANAGER  
T. FAULKNER

DRAWN BY  
T. DAVIS

SCALE  
AS SHOWN

ISSUE DATE  
FEB. 2022

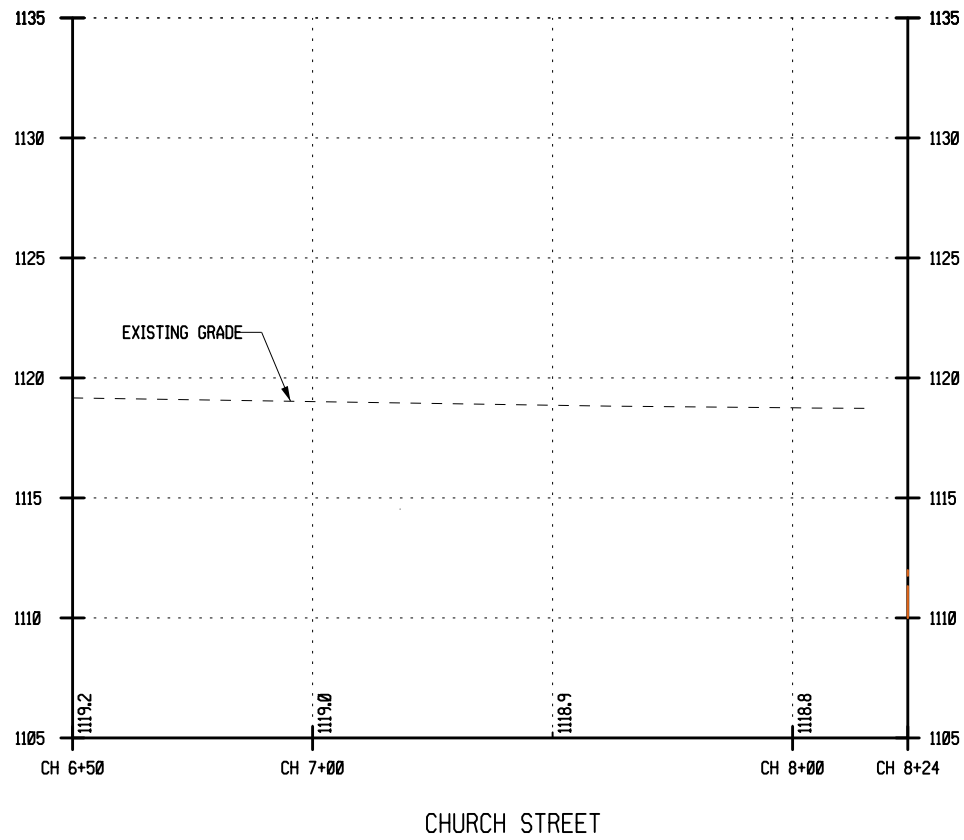
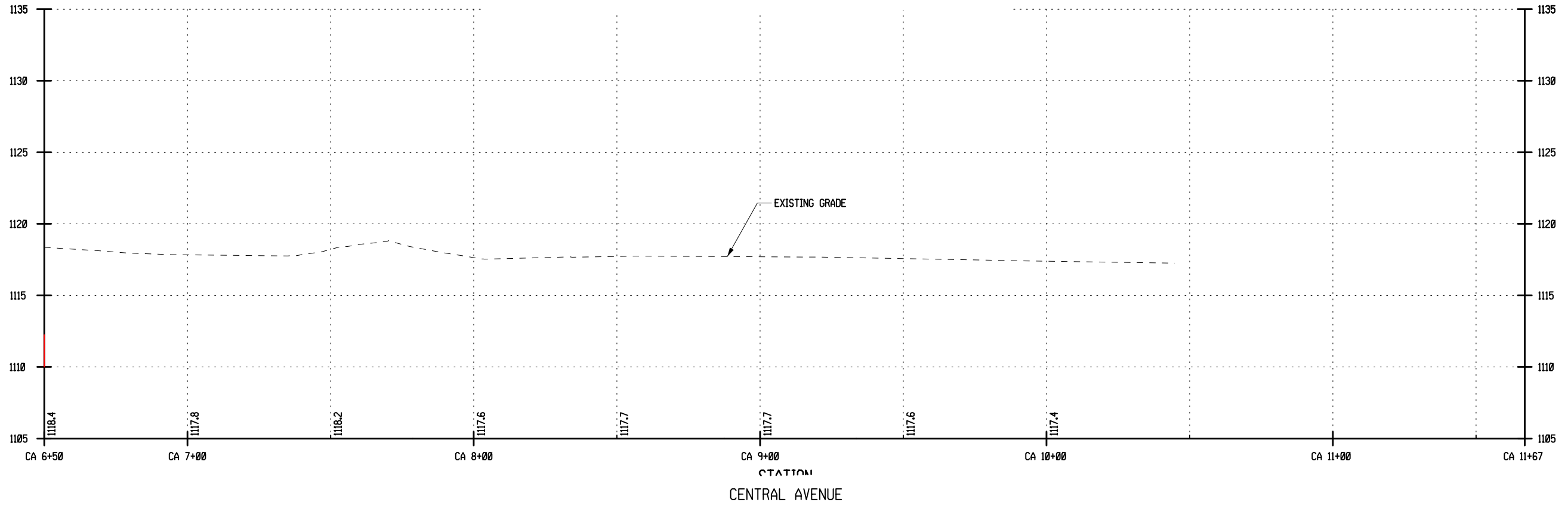


PROJECT  
MAIN STREET UTILITY  
IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK

TITLE OF DRAWING  
PROFILES

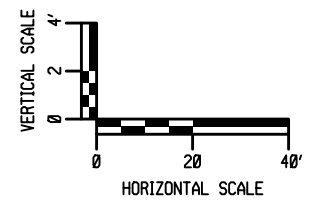
DRAWING NO.  
**PR-05**

SHEET 76F2 OF 171



LEGEND

---	DRAINAGE LT
---	DRAINAGE RT



REV	DESCRIPTION	DATE	BY
1	FC3 DRAINAGE REVISION	12/9/22	JNT
2			
3			
4			
5			
6			
7			

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drawing or plan, and the seal shall be  
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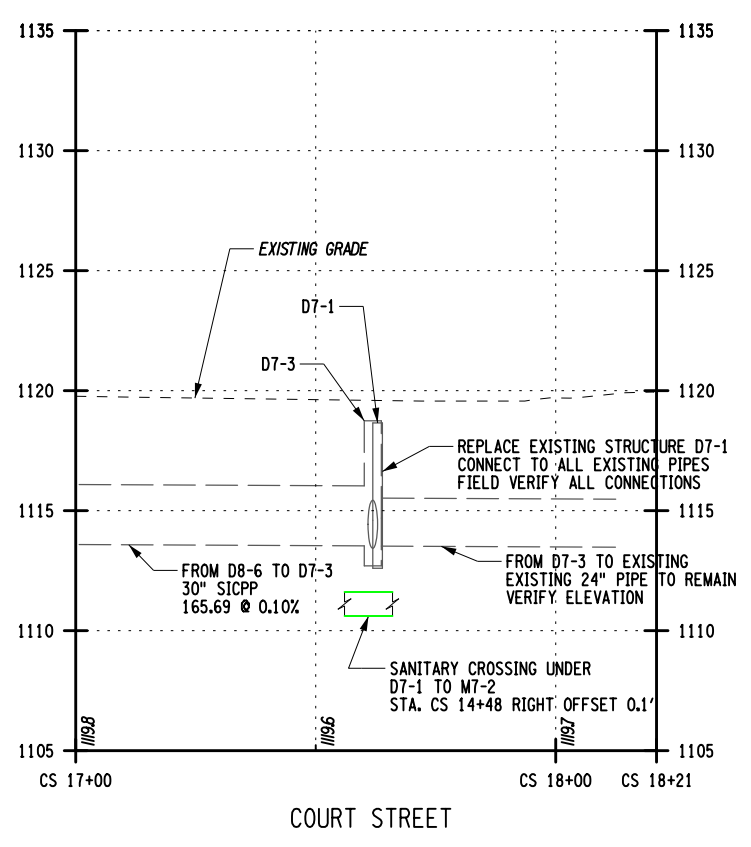
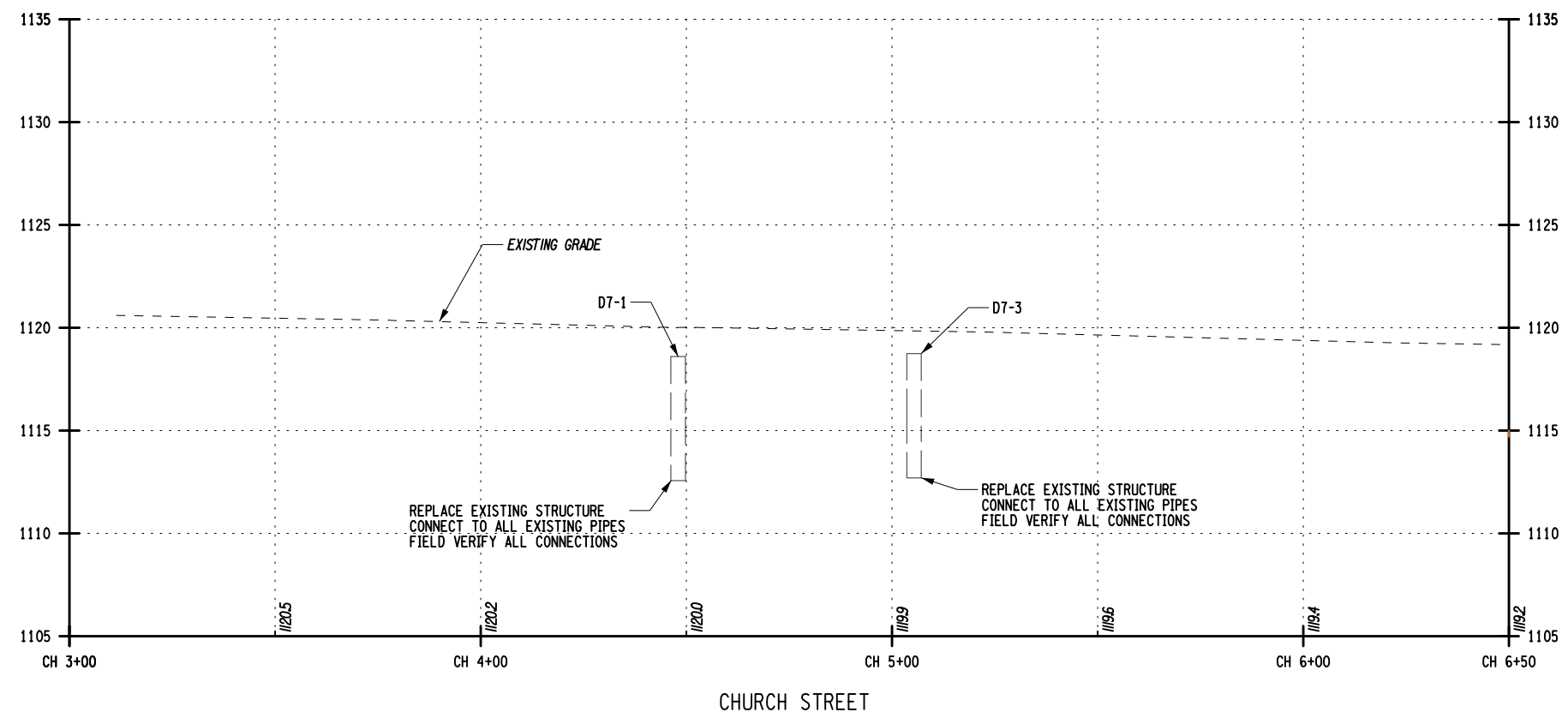
EA PROJECT NO.  
200395  
PROJECT MANAGER  
T. FAULKNER  
DRAWN BY  
T. DAVIS  
SCALE  
AS SHOWN  
ISSUE DATE  
FEB. 2022



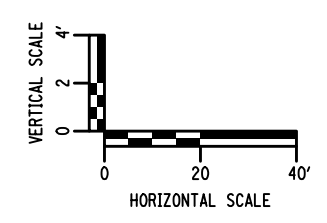
PROJECT  
MAIN STREET UTILITY  
IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK  
TITLE OF DRAWING  
PROFILES

DRAWING NO.  
**PR-06**  
SHEET 77F1 OF 171

FIELD CHANGE SHEET  
THIS SHEET SUPERCEDES SHEET 78F2

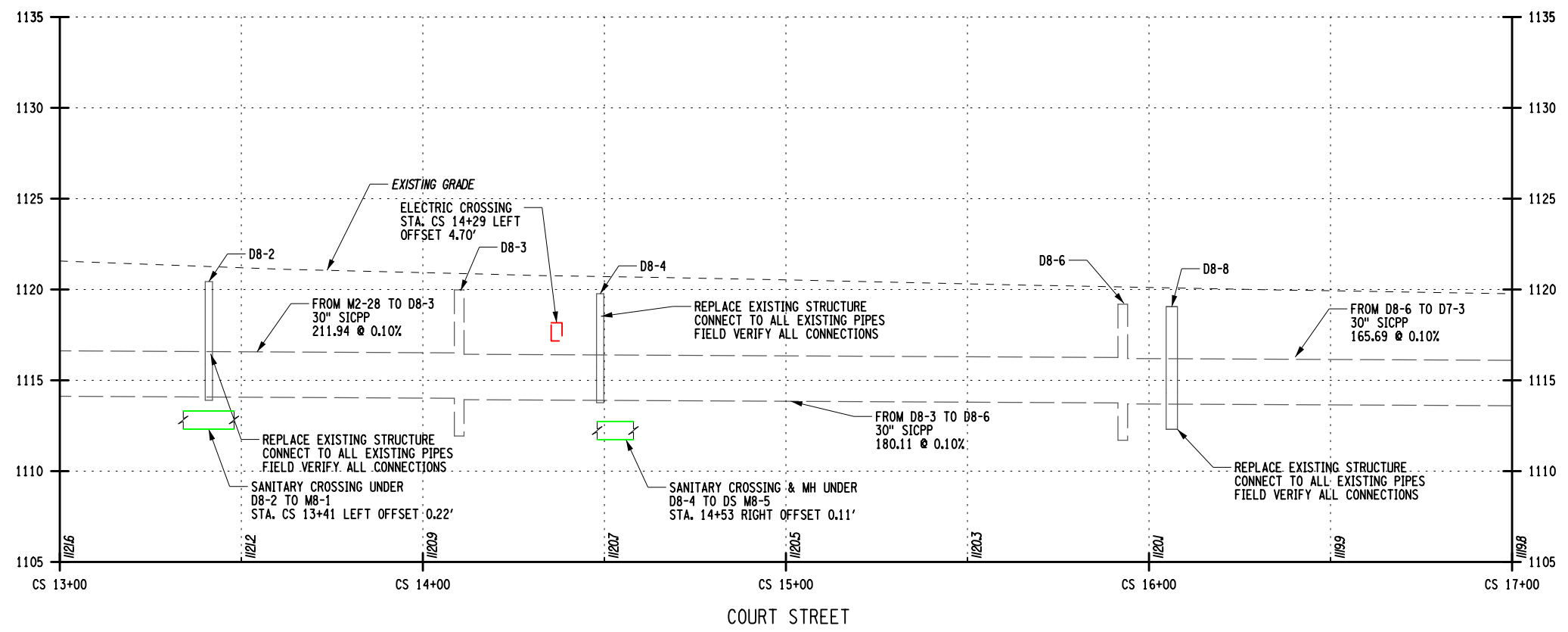


LEGEND	
	DRAINAGE LT
	DRAINAGE RT

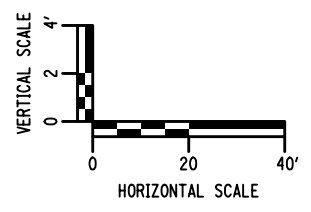


<p>PROJECT MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK</p>	
<p>TITLE OF DRAWING PROFILES</p>	
<p>DRAWING NO. <b>PR-07</b></p>	
<p>SHEET 78F3 OF 171</p>	
<p>EA PROJECT NO. 200395</p>	<p>PROJECT MANAGER T. FAULKNER</p>
<p>DRAWN BY T. DAVIS</p>	<p>SCALE AS SHOWN</p>
<p>ISSUE DATE FEB. 2022</p>	<p>ISSUE DATE FEB. 2022</p>
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<p>7</p>	<p>REV</p>
<p>6</p>	<p>DESCRIPTION</p>
<p>5</p>	<p>DATE</p>
<p>4</p>	<p>2/16/24 TRD</p>
<p>3</p>	<p>FC3 DRAINAGE REVISIONS</p>
<p>2</p>	<p>12/9/22 JNT</p>
<p>1</p>	<p>9/2/22 JNT</p>
<p>BY</p>	<p>DATE</p>

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2/16/2024 5:55:03 PM T.mD



LEGEND	
	DRAINAGE LT
	DRAINAGE RT



REV	DESCRIPTION	DATE	BY
1	FC3 DRAINAGE REVISIONS	9/2/22	JNT
2	FC3 DRAINAGE REVISIONS	12/9/22	JNT
3	DRAINAGE REVISIONS	2/16/24	TRD
4			
5			
6			
7			

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professional's signature and seal.

EA PROJECT NO.  
200395  
PROJECT MANAGER  
T. FAULKNER  
DRAWN BY  
T. DAVIS  
SCALE  
AS SHOWN  
ISSUE DATE  
FEB. 2022



PROJECT  
MAIN STREET UTILITY  
IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK  
TITLE OF DRAWING  
PROFILES

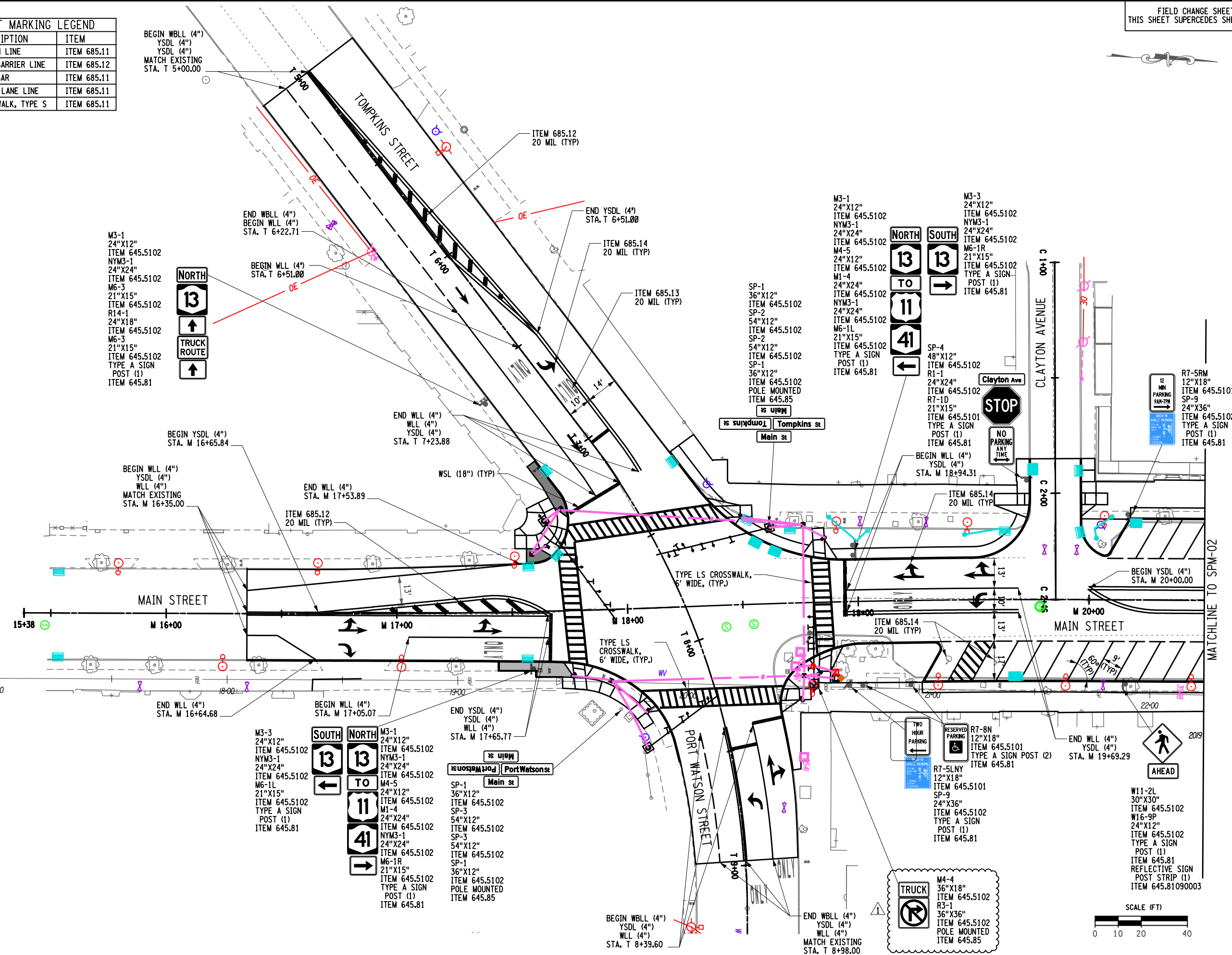
DRAWING NO.  
**PR-08**  
SHEET 79F3 OF 171



PAVEMENT MARKING LEGEND		
CODE	DESCRIPTION	ITEM
WBLL	BROKEN LINE	ITEM 685.11
YSDL	FULL BARRIER LINE	ITEM 685.12
WSL	STOP BAR	ITEM 685.11
WLL	SOLID, LANE LINE	ITEM 685.11
WCWL	CROSSWALK, TYPE S	ITEM 685.11

BEGIN WBLL (4")  
YSDL (4")  
YSDL (4")  
MATCH EXISTING  
STA. T 5+00.00

M3-1  
24"x12"  
ITEM 645.5102  
NYM3-1  
24"x24"  
ITEM 645.5102  
M6-3  
21"x15"  
ITEM 645.5102  
R14-1  
24"x18"  
ITEM 645.5102  
M6-3  
21"x15"  
ITEM 645.5102  
TYPE A SIGN  
POST (1)  
ITEM 645.81

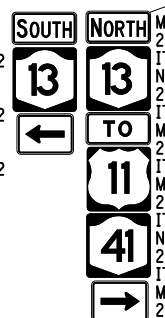
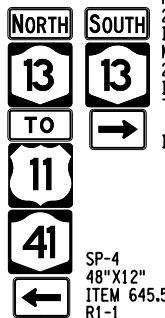


M3-1  
24"x12"  
ITEM 645.5102  
NYM3-1  
24"x24"  
ITEM 645.5102  
M4-5  
24"x12"  
ITEM 645.5102  
M1-4  
24"x24"  
ITEM 645.5102  
NYM3-1  
24"x24"  
ITEM 645.5102  
M6-1L  
21"x15"  
ITEM 645.5102  
TYPE A SIGN  
POST (1)  
ITEM 645.81

M3-3  
24"x12"  
ITEM 645.5102  
NYM3-1  
24"x24"  
ITEM 645.5102  
M6-1R  
21"x15"  
ITEM 645.5102  
TYPE A SIGN  
POST (1)  
ITEM 645.81

SP-1  
36"x12"  
ITEM 645.5102  
SP-2  
54"x12"  
ITEM 645.5102  
SP-2  
54"x12"  
ITEM 645.5102  
SP-1  
36"x12"  
ITEM 645.5102  
POLE MOUNTED  
ITEM 645.85

M4-4  
36"x18"  
ITEM 645.5102  
R3-1  
36"x36"  
ITEM 645.5102  
POLE MOUNTED  
ITEM 645.85



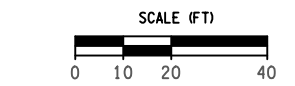
M3-3  
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ITEM 645.5102  
NYM3-1  
24"x24"  
ITEM 645.5102  
M6-1L  
21"x15"  
ITEM 645.5102  
TYPE A SIGN  
POST (1)  
ITEM 645.81

M3-1  
24"x12"  
ITEM 645.5102  
NYM3-1  
24"x24"  
ITEM 645.5102  
M4-5  
24"x12"  
ITEM 645.5102  
M1-4  
24"x24"  
ITEM 645.5102  
NYM3-1  
24"x24"  
ITEM 645.5102  
M6-1R  
21"x15"  
ITEM 645.5102  
TYPE A SIGN  
POST (1)  
ITEM 645.81

SP-1  
36"x12"  
ITEM 645.5102  
SP-3  
54"x12"  
ITEM 645.5102  
SP-3  
54"x12"  
ITEM 645.5102  
SP-1  
36"x12"  
ITEM 645.5102  
POLE MOUNTED  
ITEM 645.85

BEGIN WBLL (4")  
YSDL (4")  
WLL (4")  
MATCH EXISTING  
STA. T 8+39.60

END WBLL (4")  
YSDL (4")  
WLL (4")  
MATCH EXISTING  
STA. T 8+98.00



REV	DESCRIPTION	DATE	BY
1	WZTC REVISED SIGN ADDED	10/17/22	JNT/AE
2	CURB LINE CHANGES	3/17/23	JNT
3			
4			
5			
6			
7			

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200395  
PROJECT MANAGER  
T. FAULKNER  
DRAWN BY  
J. GONZALES  
SCALE  
AS SHOWN  
ISSUE DATE  
FEB. 2022



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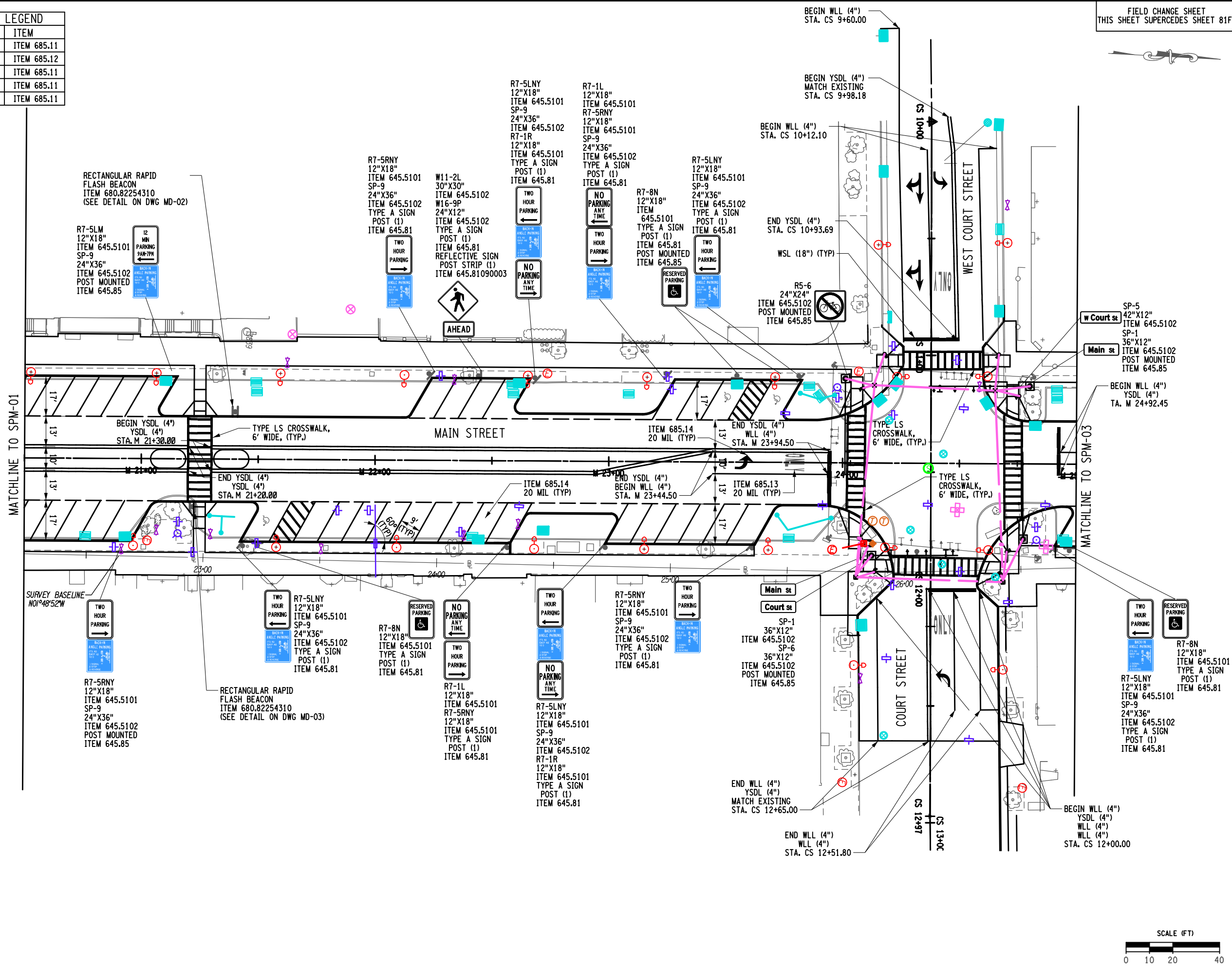
PROJECT  
MAIN STREET UTILITY  
IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK

TITLE OF DRAWING  
SIGNING AND PAVEMENT MARKING PLAN

DRAWING NO.  
**SPM-01**

PAVEMENT MARKING LEGEND		
CODE	DESCRIPTION	ITEM
WBLL	BROKEN LINE	ITEM 685.11
YSDL	FULL BARRIER LINE	ITEM 685.12
WSL	STOP BAR	ITEM 685.11
WLL	SOLID, LANE LINE	ITEM 685.11
WCWL	CROSSWALK, TYPE S	ITEM 685.11

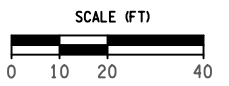
FIELD CHANGE SHEET  
THIS SHEET SUPERCEDES SHEET 81F1



MATCHLINE TO SPM-01

MATCHLINE TO SPM-03

SURVEY BASELINE  
NO194852W



NO.	DATE	DESCRIPTION	BY
1	01/17/22	WORK ZONE REVISIONS	JNT
2	03/17/23	CURB LINE CHANGES	JNT

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EA PROJECT NO.  
200395  
PROJECT MANAGER  
T. FAULKNER  
DRAWN BY  
J. GONZALES  
SCALE  
AS SHOWN  
ISSUE DATE  
FEB. 2022



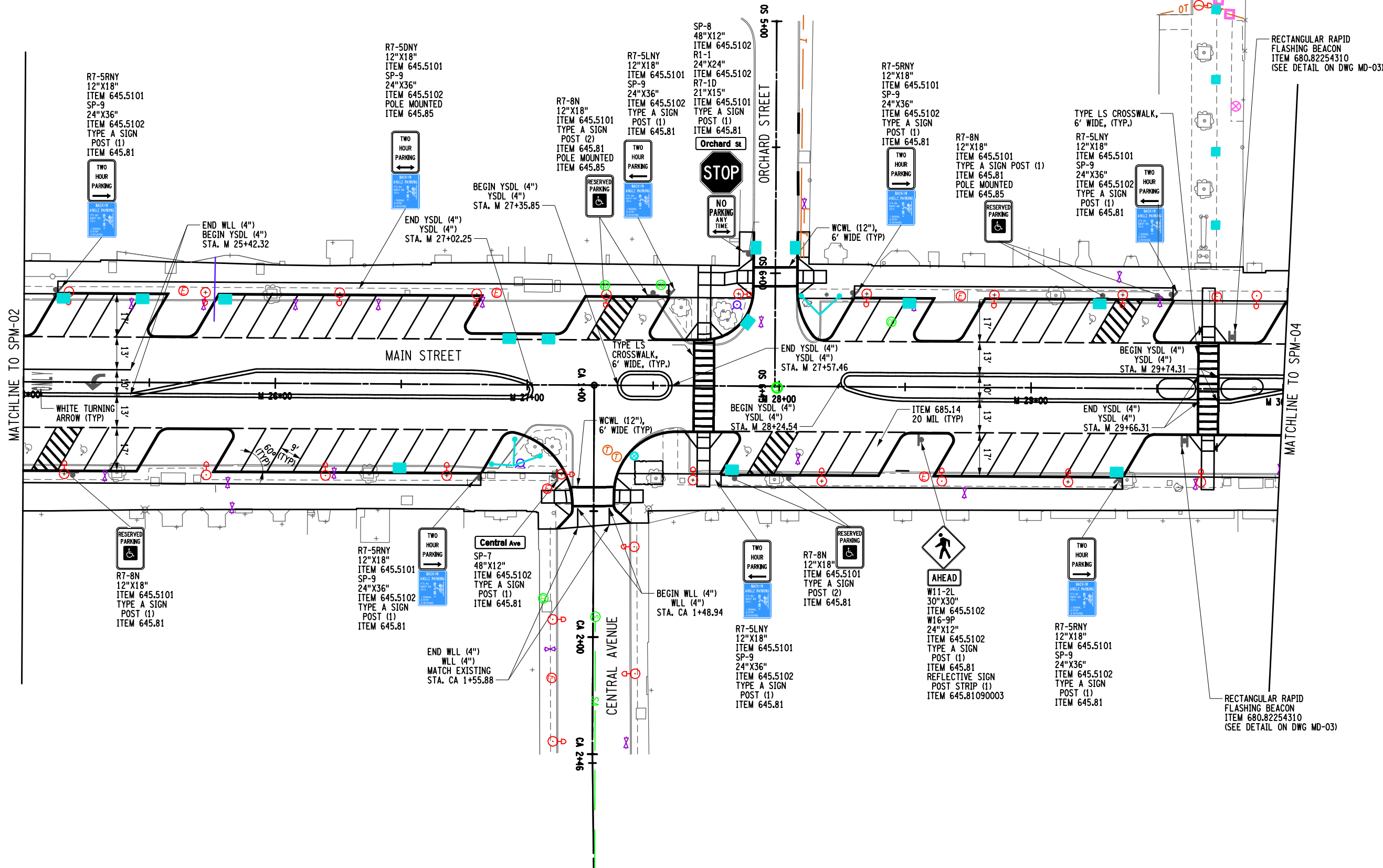
PROJECT  
MAIN STREET UTILITY  
IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK  
TITLE OF DRAWING  
SIGNING AND PAVEMENT MARKING PLAN

DRAWING NO.  
**SPM-02**  
SHEET 81F2 OF 171

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28-MAR-2023 12:47  
Jaymes

PAVEMENT MARKING LEGEND		
CODE	DESCRIPTION	ITEM
WBLL	BROKEN LINE	ITEM 685.11
YSDL	FULL BARRIER LINE	ITEM 685.12
WSL	STOP BAR	ITEM 685.11
WLL	SOLID, LANE LINE	ITEM 685.11
WCWL	CROSSWALK, TYPE S	ITEM 685.11

FIELD CHANGE SHEET  
THIS SHEET SUPERCEDES SHEET 82F1



REV	DESCRIPTION	DATE	BY
1	WORK ZONE REVISIONS	10/17/22	JNT
2	CURB LINE CHANGE	3/17/23	JNT

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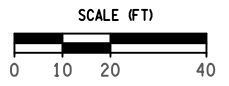
EA PROJECT NO. 200395  
PROJECT MANAGER T. FAULKNER  
DRAWN BY J. GONZALES  
SCALE AS SHOWN  
ISSUE DATE FEB. 2022



PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK  
TITLE OF DRAWING: SIGNING AND PAVEMENT MARKING PLAN

DRAWING NO. SPM-03  
SHEET 82F2 OF 171

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28-MAR-2023 12:47  
JGjames





**GENERAL:**

- THE CONTRACTOR SHALL INSTALL THE TRAFFIC SIGNAL IN ACCORDANCE WITH ALL APPLICABLE NEW YORK STATE CODES.
- THE CONTRACTOR SHALL MEET ALL REQUIREMENTS OF THE NEW YORK BOARD OF FIRE UNDERWRITERS FOR SIGNAL INSTALLATIONS.
- ALL EXISTING TRAFFIC SIGNALS SHALL REMAIN IN OPERATION UNTIL ALL NEW TRAFFIC SIGNALS ARE OPERATIONAL. THE TRAFFIC SIGNAL MAINTENANCE ENGINEER (TSME) WILL ALLOW FOR REASONABLE SIGNAL SHUTDOWN PERIOD FOR EQUIPMENT RELOCATION AND INSTALLATION. THE TSME WILL BE SOLELY RESPONSIBLE FOR ESTABLISHING THE LENGTH AND ANY REQUIREMENTS FOR A SIGNAL SHUTDOWN PERIOD.  
THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE TRAFFIC CONTROL, MEETING ANY REQUIREMENTS MADE BY THE ENGINEER AND FOR COMPLETING THE WORK WITHIN THE LENGTH OF TIME GIVEN FOR ANY SHUTDOWN PERIOD.  
THE ENGINEER WILL ASSESS ENGINEERING CHARGES AND/OR LIQUIDATED DAMAGES IN ACCORDANCE WITH SECTION 108-03 OF THE STANDARD SPECIFICATION FOR NONCONFORMANCE WITH ANY REQUIREMENT AND/OR FOR EXCEEDING THE DURATION OF THE SHUTDOWN PERIOD.
- THE COST OF PRUNING TREES TO INSTALL TRAFFIC SIGNAL HARDWARE AND THE MINOR PRUNING OF TREES TO OBTAIN SIGHT DISTANCE FOR TRAFFIC SIGNAL DEVICES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR VARIOUS TRAFFIC SIGNAL ITEMS AND NO SEPARATE PAYMENT WILL BE MADE.  
THE LIMITS FOR MINOR PRUNING OF TREES WILL BE DETERMINED SOLELY BY THE ENGINEER AND IS INTENDED FOR THE PRUNING OF BRANCHES APPROXIMATELY SIX (6) INCHES IN DIAMETER OR LESS. ALL PRUNING SHALL BE DONE AS DIRECTED BY THE ENGINEER AND IN A MANNER CONSISTENT WITH GOOD HORTICULTURAL PRACTICE.
- THE CONTRACTOR SHALL COORDINATE ALL ROADWAY WIDENING, AND PAVEMENT MARKING LANE LAYOUT AND APPLICATION WITH THE COMPLETION OF ALL TRAFFIC SIGNAL WORK FOR THE PROPER ALIGNMENT OF THE TRAFFIC SIGNAL HEADS AND LOCATION OF THE VEHICLE DETECTION INDUCTANCE LOOPS IF IMPLEMENTED.
- RECORD PLAN DATA HAS BEEN USED IN PREPARATION OF THE TRAFFIC SIGNAL PLANS. THE CONTRACTOR SHALL FIELD VERIFY ANY INFORMATION SHOWN ON THE PLANS WITH ACTUAL FIELD CONDITIONS.
- GUY WIRE ASSEMBLIES AND NON-SPAN WIRE SIGNAL CABLES TO BE REMOVED AS PART OF A POLE REMOVAL ITEM SHALL BE INCLUDED IN THE BID PRICE FOR THE POLE REMOVAL. THE CONTRACTOR SHALL REMOVE ANY OVERHEAD CABLES ATTACHED TO THE POLES, AND ANY SIGNS NOT BEING SALVAGED SHALL BE REMOVED FROM THE POLES, AND THE COSTS SHALL BE INCLUDED IN THE POLE REMOVAL ITEM.
- THE APPLICATION OF PAVEMENT MARKINGS SHALL BE COORDINATED WITH THE COMPLETION OF THE SIGNAL WORK AT EACH LOCATION WHERE PERMANENT PAVEMENT MARKINGS ARE TO BE APPLIED.

**FOUNDATION:**

- TRAFFIC SIGNAL FOUNDATIONS SHALL BEAR ON UNDISTURBED GROUND, SOIL COMPACTED IN ACCORDANCE WITH SECTION 203 OF THE STANDARD SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.
- CLARIFICATION OF STANDARD SHEET 680-01 - TRAFFIC SIGNAL POLE FOUNDATIONS SHALL MEET THE REQUIREMENTS OF SECTION 555 OF THE STANDARD SPECIFICATIONS AND BE PLACED AS A MONOLITHIC POUR.
- TEST PITS SHOULD BE PERFORMED BY THE CONTRACTOR AT EACH PROPOSED MAST ARM FOUNDATION LOCATION PRIOR TO SUBMITTAL OF SHOP DRAWINGS FOR SIGNAL POLES. ITEM 206.05 - TEST PIT EXCAVATION.

**ANCHOR BOLTS:**

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER ORIENTATION OF THE ANCHOR BOLTS FOR TRAFFIC SIGNAL POLE, PRIOR TO CONCRETE PLACEMENT. THE CONTRACTOR SHALL ORIENTATE ALL ANCHOR BOLTS USING A MATHEMATICAL METHOD OR BY SURVEYING. ALIGNMENT BY EYE SHALL NOT BE PERMITTED.

**CABLES AND WIRING:**

- THE CONTRACTOR SHALL IDENTIFY EVERY CABLE ENTERING ANY TRAFFIC CONTROL DEVICES; (CONTROLLER CABINET, PULLBOX AND POLES) BY FUNCTION AND DESTINATION ON A TAG ATTACHED TO THE CABLE WITH EITHER A STAINLESS STEEL WIRE OR A PLASTIC OR NYLON LINE.

**SIGNAL HEADS:**

- THE CONTRACTOR SHALL NOT USE ANY ALUMINUM SUSPENSION COMPONENTS LISTED IN SECTION 724-04 TRAFFIC SIGNAL HEADS; MATERIAL REQUIREMENTS, ITEM B OF THE STANDARD SPECIFICATIONS.
- AS PER REVISED USC STANDARD SHEET 680-11, ALL TRAFFIC SIGNAL HEADS AT NEW OR RE-BUILT SIGNAL LOCATIONS SHALL BE DIRECT WIRED. DISCONNECT HANGERS WILL NO LONGER BE USED WITH NEW OR RE-BUILT SIGNAL SYSTEMS.
- ALUMINUM SUSPENSION SIGNAL HARDWARE COMPONENTS SHALL NOT BE USED.
- CONTRACTOR SHALL CONSTRUCT EACH TRAFFIC SIGNAL HEAD ASSEMBLY WITH APPROPRIATE PIPING SUCH THAT ALL ASSEMBLIES ARE BALANCED AND HANG VERTICALLY.
- ITEM 680.81990003, "TRAFFIC SIGNAL HEAD BACK PLATES W/YELLOW REFLECTIVE TAPE", SHALL BE A NON-LOUVERED, 5" BORDER HAVING A FLAT BLACK FINISH WITH 3" YELLOW REFLECTIVE TAPE.

**INDUCTANCE LOOP DETECTORS:**

- THE CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO DISTURBING ANY CONDUIT AND/OR INDUCTANCE LOOPS SO THAT CONTROLLER PROGRAMMING CHANGES CAN BE MADE PRIOR TO THE CONTRACTORS WORK.
- THE ENGINEER WILL NOTIFY THE CONTRACTOR WHEN ANY NECESSARY CONTROLLER PROGRAMMING CHANGES HAVE BEEN MADE. ONLY UPON NOTIFICATION SHALL THE CONTRACTOR BE ALLOWED TO BEGIN WORK THAT WOULD AFFECT THE OPERATION OF INDUCTANCE LOOPS.

THE FOLLOWING NYSDOT STANDARD SHEETS APPLY: 680-01, 680-02, 680-03, 680-04, 680-05, 680-06, 680-08, 680-10, 680-11, 680-13, 680-17,

**SALVAGE OF TRAFFIC SIGNAL EQUIPMENT:**

- THE CONTRACTOR SHALL NOTIFY THE ENGINEER TEN (10) WORKING DAYS IN ADVANCE FOR REMOVAL OF ANY TRAFFIC SIGNAL EQUIPMENT. THE ENGINEER SHALL PROVIDE A LIST OF TRAFFIC SIGNAL EQUIPMENT TO BE SALVAGED FOR EACH LOCATION.
- ITEMS TO BE SALVAGED SHALL INCLUDE, BUT ARE NOT LIMITED TO; SIGNAL POLES, CONTROLLERS, SIGNAL HEADS AND BRACKETS, SIGNAL BACK PLATES, SIGNAL DISCONNECTS, OVERHEAD SIGNS, PEDESTRIAN HEADS AND BRACKETS, PEDESTRIAN PUSHBUTTONS, AND TRAFFIC SIGNAL MANHOLE FRAMES AND COVERS.
- THE ENGINEER WILL ASSESS ENGINEERING CHARGES FOR ANY TRAFFIC SIGNAL EQUIPMENT TO BE SALVAGED WHICH IS DAMAGED DUE TO CARELESSNESS BY THE CONTRACTOR.
- THE CONTRACTOR SHALL RETURN ALL TRAFFIC SIGNAL EQUIPMENT THAT IS REMOVED TO THE CITY OF CORTLAND AND NYSDOT.

**MAINTENANCE OF NEW OR EXISTING TRAFFIC SIGNALS**

- THE CONTRACTOR SHALL NOTIFY THE CITY OF CORTLAND THREE WORKING DAYS PRIOR TO ASSUMING MAINTENANCE, STARTING WORK IN THE AREA, OR DISTURBING CONDUIT OR LOOPS.
- TRAFFIC SIGNAL CONTROLLER PROGRAMMING CHANGES SHALL ONLY BE PERFORMED BY SIGNAL MAINTENANCE PERSONNEL DESIGNATED BY THE CITY OF CORTLAND AND NYSDOT.
- THE CONTRACTOR SHALL OBTAIN PERMISSION FROM THE EIC AND SIGNAL MAINTENANCE ENGINEER PRIOR TO ENTERING ANY EXISTING TRAFFIC SIGNAL CONTROLLER CABINET, PERFORMING ANY WORK ON AN EXISTING TRAFFIC SIGNAL, OR ENERGIZING ANY NEW TRAFFIC SIGNAL INSTALLATION.
- PEDESTRIAN TRAFFIC SIGNAL DISPLAYS CONTROLLING CLOSED CROSSWALKS SHALL BE COVERED OR REMOVED.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF CORTLAND PRIOR TO TAKING THE EXISTING SIGNALS OUT OF SERVICE.

**CONDUIT**

- TRAFFIC SIGNAL CONDUIT EXCAVATION AND INSTALLATION OF TRAFFIC SIGNAL CONDUIT SHALL BE CONDUCTED PRIOR TO PAVING OF ROADWAY AND/OR INSTALLATION OF NEW SIDEWALK.
- ALL BENDS IN CONDUIT SHALL BE A SWEEPING RADIUS AND MADE WITHOUT KINKING, FLATTENING OR APPRECIABLY REDUCING THE INTERNAL DIAMETER OF THE CONDUIT.

**ITEM 680.79000105 - REMOVE TRAFFIC SIGNAL INSTALLATION**

- INCLUDED IN ITEM 680.79000105 - REMOVE TRAFFIC SIGNAL INSTALLATION IS THE REMOVAL OF SIGNAL POLES, CONTROLLERS, SIGNAL HEADS AND BRACKETS, SIGNAL BACKPLATES, SIGNAL DISCONNECTS, OVERHEAD SIGNS, PEDESTRIAN HEADS AND BRACKETS, PEDESTRIAN PUSHBUTTONS, AND CABLES (FIBER OPTIC, SERVICE, SIGNAL & SHIELDED LEAD-IN CABLE).
- ALSO INCLUDED IS THE ABANDONING OF THE PREVIOUSLY INSTALLED AND UNUSED CONDUIT BY CAPPING THE ABANDONED CONDUIT ENDS.
- REMOVAL OF EXISTING SIGNAL EQUIPMENT SHALL NOT BEGIN UNTIL THE NEW SIGNAL HAS BEEN PLACED INTO OPERATION AND VERIFIED BY THE ENGINEER, UNLESS PRIOR PERMISSION HAS BEEN GIVEN BY THE ENGINEER.

**ITEM 662.60000115 - FURNISHING ELECTRICAL SERVICE**

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND CONFIRMING THE POWER POINT LOCATION WITH THE UTILITY COMPANY FOR HAVING THE UTILITY SUPPLY AND HOOK UP OF THE METER.
- THE CONTRACTOR SHALL INFORM THE ENGINEER OF ANY DESIRED CHANGE TO THE POWER POINT LOCATION. THE TRAFFIC SIGNAL MAINTENANCE ENGINEER WILL BE SOLELY RESPONSIBLE FOR APPROVING CHANGES TO THE POWER POINT LOCATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF ANY RISER, CONDUIT AND CONTINUOUS WIRING FROM THE METER PAN TO THE LOCATION WHERE THE UTILITY COMPANY INTENDS TO PROVIDE ELECTRICAL SERVICE FROM.
- THE REQUIREMENTS FOR ELECTRICAL SERVICE MAY VARY FOR EACH UTILITY COMPANY. A TYPICAL ELECTRICAL SERVICE CONNECTION HAS BEEN PROVIDED FOR USE.
- THE CONTRACTOR SHALL FURNISH ELECTRICAL SERVICE IN ACCORDANCE WITH ALL APPLICABLE NEW YORK STATE AND UTILITY COMPANY CODES AND REQUIREMENTS.
- THE CONTRACTOR SHALL PROVIDE ALL TRENCHING, RESTORATION REQUIRED, CONDUIT, AND WIRING ON THE LINE SIDE FROM THE METER TO THE POWER POINT. THE ENGINEER WILL MAKE PAYMENT FOR THIS WORK USING THE ITEMS INCLUDED IN THE CONTRACT.
- FOR ANY WORK REQUIRED BY THE UTILITY ON THE LINE SIDE THAT IS NOT PAYABLE USING ITEMS INCLUDED IN THE CONTRACT; THE ENGINEER WILL ALLOW THE CONTRACTOR TO SUBMIT AN INVOICE SHOWING THE COST FOR THIS WORK COMPLETED.  
IN ACCORDANCE WITH ITEM 662.60000115 - FURNISH ELECTRICAL SERVICE, ALL APPROVED INVOICES WILL BE PAID FOR BY THE ENGINEER USING THIS ITEM.

**AUDIBLE WIRING**

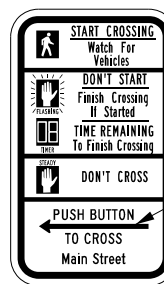
- THE MANUFACTURER'S SUGGESTED CABLES (OR EQUIVALENTS) SHALL BE USED WITH AUDIBLE PEDESTRIAN SIGNAL (APS) UNITS. THE QUANTITY OF CABLE REQUIRED AT THIS LOCATION SHALL BE DETERMINED BY THE CONTRACTOR IN ACCORDANCE WITH THE APS MANUFACTURER'S INSTALLATION DETAILS AND PROCEDURES.
- REFER TO THE MANUFACTURER'S INSTALLATION AND PROCEDURE MANUALS FOR DETAILS.
- THE COST TO FURNISH AND INSTALL ALL WIRING BETWEEN THE AUDIBLE PEDESTRIAN SIGNAL (APS) UNITS FOR ITEM 680.81330010 AND THEIR RESPECTIVE CONTROL UNITS MOUNTED IN THE PED. HEADS SHALL BE INCLUDED UNDER PROVISIONS OF ITEM 680.81330010.

**APS**

- CONTRACTOR SHALL ORDER APS BUTTONS FROM MANUFACTURER WITH STREET NAME MESSAGES PRE-INSTALLED. CONTRACTOR SHALL PROVIDE COPIES OF THE ASSOCIATED ELECTRONIC "WAVE" FILES TO CITY OF CORTLAND & NYSDOT.

**PEDESTRIAN PUSHBUTTON SIGNS**

- USE SIGN R10-3i (MUTCD) SIZE OF SIGN SHALL BE 9" X 15". INCLUDE TEXT AND PROPER DIRECTIONAL ARROWS.
- ALL TEXT SHALL BE PRINTED BY MANUFACTURER. SIGN PANELS SHALL BE ALUMINUM.
- THE PEDESTRIAN COUNT-DOWN TIMER MODULE SHALL BE INSTALLED BENEATH THE PEDESTRIAN SIGNAL MODULE (BI-MODAL AND HAND/MAN)



ARROW MAY FACE LEFT OR RIGHT, IT IS THE CONTRACTOR'S RESPONSIBILITY FOR PROPER ARROW ORIENTATION.

R10-3i

**RRFB NOTES**

- SIGN NUMBERS SHOWN TO REFER TO THE 2009 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NYS SUPPLEMENT.
- ALL NECESSARY HOLES IN THE SIGNAL POLE BELOW THE LOAD ATTACHMENT POINT AND GREATER THAN 1/8" IN DIAMETER SHALL BE MADE BY THE MANUFACTURER AND REINFORCED ACCORDING TO FABRICATION DETAILS AND CONTRACT DOCUMENTS.
- ALL COUPLINGS AND BUSHINGS SHALL BE MECHANICALLY THREADED. COMPRESSION OR SLIP TYPE COUPLINGS OR BUSHINGS SHALL NOT BE ALLOWED.
- UNLESS OTHERWISE NOTED ON THE PLANS, ALL RRFBs SHALL HAVE A MINIMUM OF 2 NPS DIAMETER CONDUIT SWEEP.
- THE CONTRACTOR SHALL SPOT LOCATE ALL POLL LOCATIONS. THE EIC SHALL APPROVE ALL LOCATIONS BEFORE CONSTRUCTION OF THE POLE FOUNDATIONS BEGIN.
- AT LOCATIONS WHERE RRFBs ARE BEING INSTALLED WITH IN THE SIDEWALK THE TOP OF THE FOUNDATIONS SHALL BE FLUSH WITH THE SIDEWALK.
- CONCRETE SLUMP AND AIR TEST AND THREE (3) CONCRETE CYLINDERS SHALL BE TAKEN FROM EACH RRFB FOUNDATION.
- SOLAR PANEL SHALL NOT EXCEED THE WIDTH OF THE RRFB SIGN PANELS TO AVOID DAMAGE AND POTENTIAL UTILITY CONFLICTS.
- ALL ADA STANDARDS SHALL BE MET WITH PLACEMENT OF THE RRFB'S WITH THE PROPOSED CROSSWALKS.
- WHEN MULTIPLE RRFB UNITS ARE ISSUED AT A LOCATION CONTRACTOR SHALL BE USED DIFFERENT RADIO FREQUENCIES TO AVOID COMMUNICATION ISSUES.
- THE UNIT PRICE BID FOR ITEMS 680.82254130 RECTANGULAR RAPID FLASHING BEACONS SHALL ALSO INCLUDE: SIGNAL POLE, SIGNS, BREAKAWAY TRANSFORMER BASE AND APS PUSH BUTTONS.
- ALL RECTANGULAR RAPID FLASHING BEACONS SHALL INCLUDE AN ADA PEDESTRIAN PUSH BUTTON MEETING THE REQUIREMENTS OF ITEM 680.81330010 ACCESSIBLE PEDESTRIAN SIGNAL (APS) WITHOUT POLE. COST TO BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 680.82254130 RECTANGULAR RAPID FLASHING BEACONS.
- SIGNAL DIRECTION BEACONS WILL REQUIRE 1 SIGN, BIDIRECTIONAL BEACONS WILL REQUIRE 2 SIGNS.
- THE BATTERY AND SOLAR POWERED COLLECTOR SHALL MEET ALL THE REQUIREMENTS FOR APS BUSH BUTTONS.
- ALL PEDESTRIAN PUSH BUTTONS SHALL BE LOCATED PARALLEL WITH THE APPROPRIATE CROSSWALK.
- THE CONTRACTOR SHALL INSTALL FURNISHED ANCHOR BOLT COVERS FOR ANY RRFB WHERE PEDESTRIAN TRAFFIC MAY EXIST.
- ALL SIGNAL EQUIPMENT SHALL BE PLACED IN THE LOCATION THAT COMPLIES WITH THE NYS HIGH VOLTAGE PROXIMITY ACT. THIS INCLUDES, BUT IS NOT LIMITED TO, KEEPING ALL SIGNAL EQUIPMENT A MINIMUM OF 10 FT. FROM PRIMARY LINES, AND 2 FT. FROM SECONDARY AND ALL OTHER LINES. SEE STANDARD SHEET 680-17 FOR ADDITIONAL DETAILS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL RESPECTIVE UTILITY OWNERS DURING CONSTRUCTION.
- THE CONTRACTOR IS CAUTIONED THAT THE LOCATIONS OF UTILITIES SHOWN ON THE CONTRACT PLANS ARE NOT GUARANTEED. NOR IS THERE ANY GUARANTEE THAT ALL UTILITIES WITH IN THE CONTRACT LIMITS HAVE BEEN SHOWN ON THE PLANS. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO SATISFY THEMSELVES AS TO THE EXACT UTILITY LOCATIONS, AND AT THEIR OWN EXPENSE, TO PROTECT AN SUPPORT ALL UTILITIES ENCOUNTERED IN THEIR EXCAVATING AND TRENCHING OPERATIONS. CONTRACTOR SHALL NOTIFY DIG SAFELY NEW YORK AT 811 IN ACCORDANCE WITH 16 NYCRR 753.
- THE CONTRACTOR SHALL COORDINATE AND REQUEST PERMISSION FROM THE CITY OF CORTLAND PRIOR TO THE START OF WORK.
- RRFB IS TO BE BAGGED AND REMAIN DARK UNTIL IT IS READY FOR OPERATION.

PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK

TITLE OF DRAWING: TRAFFIC SIGNAL NOTES

DRAWING NO.: **TSN-01**

SHEET 84 OF 169

DATE: \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

REV: \_\_\_\_\_

BY: \_\_\_\_\_

SCALE: NO SCALE

ISSUE DATE: FEB. 2022

PROJECT MANAGER: T. FAULKNER

DRAWN BY: A. BENJUMIEA

STATE OF NEW YORK  
SEAL OF ENGINEER  
T. FAULKNER  
LICENSED PROFESSIONAL ENGINEER  
07108

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WWW.FISHERASSOC.COM

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NEW YORK STATE EDUCATION LAW SECTION 115.6(3) THIS SEAL IS VALID FOR ANY PERSON, FIRM OR CORPORATION WHOSE EXPIRES ARE LISTED IN THE REGISTERED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO OBTAIN AN ITEM IN ANY WAY. IF THE SEAL IS USED BY ANY OTHER PERSON, FIRM OR CORPORATION, THE SEALING IS VOID AND THE SEALING IS VOID. THE NOTATION "ISSUED BY" FOLLOWED BY THE SIGNATURE OF THE ENGINEER, ARCHITECT, SURVEYOR OR LAND SURVEYOR, AND A SPECIFIC DESCRIPTION OF THE DRAWING.

**NYS DOT NOTES: FOR THE MAIN STREET / TOMPKINS STREET / PORT WATSON STREET INTERSECTION**

**DEFINITIONS:**

1. THE WORDS "SHALL", "SHOULD", AND "MAY", AS USED IN THE CONTRACT DOCUMENTS, HAVE THE FOLLOWING MEANING:

SHALL - A MANDATORY CONDITION. IN THE DESIGN, APPLICATION OR LOCATION OF DEVICES REQUIREMENTS HAVING "SHALL" STIPULATIONS ARE MANDATORY. NO DISCRETION IN FOLLOWING THEM IS ALLOWED.

SHOULD - AN ADVISORY CONDITION. WHERE "SHOULD" IS USED IN RELATION TO A PROVISION, THAT PROVISION IS RECOMMENDED, AND NORMALLY IS TO BE FOLLOWED, BUT IS NOT MANDATORY. DEVIATION FROM SUCH PROVISIONS IS PERMISSIBLE IF, AND TO THE EXTENT, THERE IS JUSTIFIABLE CAUSE TO DO SO.

MAY - A PERMISSIVE CONDITION. NO REQUIREMENT FOR DESIGN OR APPLICATION IS INTENDED.

**EXCAVATION:**

1. EXCEPT IN ROADWAY SECTIONS, THE CONTRACTOR SHALL EXCAVATE ALL EXISTING TRAFFIC SIGNAL PULLBOXES, POLES AND FOUNDATIONS TO A DEPTH OF 6" BELOW EXISTING GRADE AND BACKFILL WITH MATERIAL IN KIND. THE CHARACTER AND CONDITION SHALL MATCH THAT SURROUNDING THE STRUCTURE OR ABOVE. WITHIN THE ROADWAY, THESE EXCAVATIONS WILL BE MADE TO A DEPTH OF 1 FOOT BELOW THE TOP OF SUBGRADE AND BACKFILLED WITH SUITABLE MATERIAL. THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 05680.79 - "REMOVE TRAFFIC SIGNAL EQUIPMENT."

**CLEARANCES:**

1. ALL SIGNALS IN THIS CONTRACT SHALL BE A MINIMUM OF 16.5 FEET ABOVE THE HIGH POINT OF THE ROADWAY, WITH ALL RED INDICATIONS LEVEL ACROSS THE INTERSECTION. NO EXCEPTIONS SHALL BE MADE FOR SIGNALS MOUNTED BELOW 16.5 FEET. FOR SIGNALS WITH BACK PLATES MOUNTED ON THEM, THE BOTTOM OF THE BACK PLATE SHALL BE A MINIMUM OF 16.5 FEET ABOVE THE HIGH POINT IN THE ROADWAY.

**SIGNAL POLES:**

1. ALL NECESSARY HOLES IN THE POLE BELOW THE LOAD ATTACHMENT POINT AND GREATER THAN 3/4" IN DIAMETER SHALL BE MADE BY THE MANUFACTURER AND REINFORCED ACCORDING TO FABRICATION DETAILS AND CONTRACT DOCUMENTS.
2. THE CONTRACTOR SHALL FURNISH AND INSTALL ANCHOR BOLT COVERS FOR ANY TRAFFIC SIGNAL POLE OR PEDESTRIAN POLE WHERE PEDESTRIAN TRAFFIC MAY EXIST. CONTRACTOR SHALL CONTACT TRAFFIC SIGNAL MAINTENANCE AT (315) 428-4064 TO MAKE THIS DETERMINATION.
3. AT INTERSECTIONS WHERE SIGNAL POLES OR PEDESTRIAN POLES ARE BEING PLACED IN SIDEWALKS, THE TOP OF THE FOUNDATION SHALL BE FLUSH WITH THE TOP OF THE SIDEWALK.

**MAST ARM POLES:**

1. MAST ARM TRAFFIC SIGNAL POLES SHALL HAVE A TAPERED MAST ARM. ALL MAST ARMS SHALL ALSO USE ONLY ASTM F1554, GRADE 55 ANCHOR BOLTS.
2. THE PROPOSED LOCATION OF THE FREE END OF ANY MAST ARM IS REQUIRED TO BE VERIFIED BY THE CONTRACTOR AND APPROVED BY REGIONAL TRAFFIC SAFETY AND MOBILITY GROUP PRIOR TO SETTING THE BOLT ORIENTATION IN THE POLE FOUNDATION. CONTRACTOR SHALL ALSO NOTIFY REGIONAL TRAFFIC SAFETY AND MOBILITY GROUP TO VERIFY PROPER LOCATION OF ALL SIGNAL HEADS AND SIGNS PRIOR TO INSTALLATION.
3. FOR THOSE MAST ARMS IN WHICH FIRE PRE-EMPTION EQUIPMENT WILL BE MOUNTED, THE HOLE FOR THE DEVICE SHALL ONLY BE DRILLED ON THE BOTTOM SIDE OF THE MAST ARM. THE HOLE SHALL ALSO BE SEALED AFTER INSTALLATION IS TESTED.

**MICROCOMPUTER CABINET:**

1. EACH AND EVERY CABLE ENTERING THE CONTROLLER CABINET AND PULLBOXES SHALL BE PERMANENTLY MARKED BY FUNCTION AND PHASE STAMPED ON NYS DOT APPROVED TAGS. THE TAGS SHALL BE ATTACHED TO THE CABLES WITH PLASTIC OR NYLON LINE.
2. ON STANDARD SHEET NO. 680-05, THE CABINET SHALL ONLY BE Banded TO THE POLE AT BOTH THE TOP AND BOTTOM BRACKETS. WELDING SHALL NOT BE ALLOWED. FOR A GROUND MOUNTED CABINET, THE BOLT DIAMETER CONNECTING THE BASE TO THE CONCRETE SHALL BE 3/4 INCH.
3. EVERY CONDUIT ENTRANCE TO THE TRAFFIC SIGNAL CABINET SHALL BE SEALED USING NON-SHEDDING STAINLESS STEEL SPONGES. THE STEEL SPONGES SHOULD NOT ACTUALLY BE PLACED INSIDE THE CABINET, BUT INSIDE THE 4 NPS CONDUIT/ 90 DEGREE PULLING ELBOW (LB) AS IT PASSES INTO THE POLE. THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 680.80324515 - "INSTALL MICROCOMPUTER CABINET".
4. ALL BATTERY BACK UP SYSTEM EQUIPMENT SHALL BE INSTALLED PRIOR TO TURNING ON A NEW TRAFFIC SIGNAL. BATTERY BACK UP SYSTEM SHALL BE SUCCESSFULLY TESTED IN PRESENCE OF REGIONAL TRAFFIC SAFETY AND MOBILITY GROUP PRIOR TO FINAL ACCEPTANCE.
5. IN UNPAVED AREAS, THE CONTRACTOR SHALL INSTALL A 5 FT X 5 FT CONCRETE WORK PAD. WHETHER PRECAST OR CAST IN PLACE, AS SHOWN ON STANDARD SHEET 680-05, THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 680.80324515 - "INSTALL MICROCOMPUTER CABINET".
6. THE CONTRACTOR SHALL REQUEST PERMISSION FROM THE NYS DOT TRAFFIC SIGNAL MAINTENANCE AT (315) 428-4064 TO ENTER INTO ANY EXISTING TRAFFIC SIGNAL CONTROLLER CABINET, OR DO ANY WORK ON AN EXISTING TRAFFIC SIGNAL CONTROLLER CABINET, AND TWO WEEKS BEFORE ENERGIZING ANY SIGNAL INSTALLATION TO SCHEDULE A TURN ON DATE.
7. THE CONTRACTOR SHALL NOTIFY NYS DOT TRAFFIC SIGNAL MAINTENANCE AT (315) 428-4064 PRIOR TO BEGINNING WORK AT ANY SIGNAL, AND AGAIN TWO WEEKS BEFORE ATTEMPTING TO ENERGIZE A SIGNAL TO SCHEDULE A TURN ON DATE.

**TRAFFIC SIGNALS:**

1. ALL POLYCARBONATE SIGNAL HEADS WITH THREE OR MORE SECTIONS REQUIRE A REINFORCEMENT PLATE UNLESS CONNECTED TO A FIXED OBJECT (POLE OR MAST ARM) BY A BRACKET WITH TWO SEPARATE CONNECTION POINTS (TOP AND BOTTOM).
2. THE CONTRACTOR SHALL INSTALL A HEAVY DUTY STAINLESS STEEL COTTER PIN AND A STAINLESS STEEL WASHER ON THE SIGNAL HEAD BALANCE ADJUSTER.
3. ALL LED'S WILL BE STATE SUPPLIED, UNLESS OTHERWISE NOTED ON THE PLAN SHEET. SEE NOTE ON PLAN SHEET FOR COORDINATION REQUIREMENTS.
4. ALL TRAFFIC SIGNAL HEADS SHALL HAVE 12" LENSES.

5. ITEM 680.81990003 - "TRAFFIC SIGNAL BACK PLATES WITH YELLOW REFLECTIVE TAPE" SHALL BE MODIFIED TO ONLY ALLOW 5 INCH NON LOUVERED, FLAT BLACK FINISHED BACK PLATES WITH A 3 INCH WIDE YELLOW REFLECTIVE TAPE BORDER AROUND THE OUTER EDGE. ALL BACKPLATES SHALL BE 1/4 INCH THICK AND ONLY STAINLESS-STEEL HARDWARE COMPATIBLE WITH PLASTIC SURFACES SHALL BE USED. THE HARDWARE SHALL EXTEND SLIGHTLY BEYOND THE BACKPLATE BUT SHALL NOT INTERFERE WITH THE SIGNAL HEAD DOOR OR ITS SEALS.

**SIGNAL CABLE:**

1. STANDARD SPECIFICATION 680-3.18 IS MODIFIED ALLOWING ONLY RINGS TO BE USED FOR THE ATTACHMENT OF SIGNAL CONTROL CABLES TO THE MESSENGER CABLE.

**PULLBOXES:**

1. PULLBOXES SHALL HAVE A TWO FOOT MINIMUM DRAINAGE BED OF NO. 2 CRUSHED STONE OR GRAVEL PLACED BELOW THE PULLBOX, ABOVE. THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE PULLBOX ITEM.
2. ON STANDARD SHEET NO. 680-04, ALL PULLBOXES SHALL BE SET TO 1/2 INCH BELOW GRADE WITH ALL THE SURROUNDING SURFACES, EXCEPT SIDEWALK, WHERE THEY SHALL BE FLUSH.
3. WHENEVER ITEM 680.510501 - PULLBOX, RECTANGULAR 26 X 18 INCHES, REINFORCED CONCRETE REMOVED AND REPLACED, AND THE PULLBOX SHALL BE SET FLUSH WITH THE SIDEWALK. THE COST OF THIS WORK SHALL BE INCLUDED IN THIS ITEM.

**LOOPS:**

1. CLARIFICATION OF CONTRACTOR'S RESPONSIBILITY REGARDING MAINTAINING LOOP DETECTION UNDER "MAINTAIN TRAFFIC SIGNAL EQUIPMENT": THE CONTRACTOR SHALL MAINTAIN EXISTING VEHICLE DETECTION WITH REASONABLE CARE. UNLESS OTHERWISE NOTED, THE MAXIMUM LENGTH OF TIME THAT AN INTERSECTION CAN BE WITHOUT DETECTION IS TWO (2) WEEKS. IF DETECTION IS NOT RESTORED WITH THIS TIME FRAME, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO ESTABLISH VEHICLE DETECTION AT THEIR OWN EXPENSE.

**CONDUITS:**

1. WHERE CONDUIT IS TO BE PLACED UNDER THE ROADWAY, THE CONTRACTOR SHALL USE A 3" DIAMETER CONDUIT, UNLESS OTHERWISE SHOWN ON THE PLAN SHEET.
2. UNLESS OTHER WISE NOTED ON THE PLANS, ALL SIGNAL POLE AND CONTROLLER BASES SHALL HAVE A MINIMUM OF 4 NPS DIAMETER CONDUIT SWEEP. PEDESTRIAN SIGNAL POLES SHALL HAVE A MINIMUM OF 2 NPS DIAMETER CONDUIT SWEEP.
3. ALL SIGNAL CONDUITS SHALL BE BONDED WITH A \*6 BARE STRANDED COPPER GROUND WIRE.
4. ALL COUPLINGS AND BUSHINGS SHALL BE MECHANICALLY THREADED. COMPRESSION OR SLIP TYPE COUPLINGS OR BUSHINGS SHALL NOT BE ALLOWED.
5. WHENEVER ITEM 206.03060005 - CONDUIT EXCAVATION AND BACKFILL INVOLVES SAW CUTTING ACROSS THE WIDTH OF THE SIDEWALK, THE AFFECTED SLABS SHALL BE FULLY REMOVED AND REPLACED. THE COST OF THIS WORK SHALL BE INCLUDED IN THIS ITEM.

**PEDESTRIAN SIGNALS:**

1. STANDARD SPECIFICATION 680.6708 IS MODIFIED ALLOWING ONLY ALUMINUM PEDESTRIAN TRAFFIC SIGNAL POLES WITH 9-10 INCH BOLT CIRCLE. NO TRANSFORMER BASE IS ALLOWED.
2. ALL PEDESTRIAN PUSH BUTTONS SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS. THE COST TO BE INCLUDED IN THE BID PRICE FOR ITEM 680.81330010 - AUDIBLE PEDESTRIAN SIGNAL.
3. ALL PEDESTRIAN PUSH BUTTONS SHALL BE LOCATED PARALLEL WITH THE APPROPRIATE CROSSWALK. ALSO, ALL INDICATIONS SHALL BE INSTALLED AWAY FROM TURNING VEHICULAR TRAFFIC UNLESS OTHERWISE SHOWN ON THE PLAN SHEET.
4. ON STANDARD SHEET NO. 680-10, THE PEDESTRIAN INDICATIONS SHALL BE BANDED TO THE POLE AND HAVE ONE BOLT THROUGH THE TOP BRACKET.
5. ITEM 680.81330010 - AUDIBLE PEDESTRIAN SIGNAL SHALL INCLUDE PROGRAMMING ALL THE FOLLOWING SETTINGS FOR AN AUDIBLE PEDESTRIAN SIGNAL PRIOR TO ACTIVATION:  
 - LOCATE VOL MIN: 50  
 - LOCATE VOL MAX: 60  
 - INFO MSG VOL MIN: 50  
 - STD WALK VOL MIN: 50  
 - STD WALK VOL MAX: 60  
 - EXT WALK VOL MIN: 50  
 - EXT WALK VOL MAX: 60  
 - VOL OVER AMBIENT: +5

**SIGNS:**

1. A STAINLESS STEEL BOLT, NUT, AND LOCK WASHER SHALL BE INSTALLED A MINIMUM OF 2 INCHES FROM THE BOTTOM OF THE OVERHEAD MOUNTED SIGN PIPE. THE COST OF FURNISHING AND INSTALLING THIS EQUIPMENT SHALL BE INCLUDED IN THE PRICE FOR ITEM 680.8210, OVERHEAD SIGN ASSEMBLY, TYPE J, OR ITEM 680.8207, OVERHEAD SIGN ASSEMBLY, TYPE G.
2. OVERHEAD LANE SIGNS SHALL BE CENTERED OVER THEIR RESPECTIVE LANES.
3. SIGN NUMBERS SHOWN REFER TO THE NATIONAL MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AND 17 NYCRR CHAPTER V (NEW YORK SUPPLEMENT).
4. ALL OVERHEAD SIGNAL RELATED SIGNS IN THIS CONTRACT SHALL BE A MINIMUM OF 16.5 FEET ABOVE THE HIGH POINT OF THE ROADWAY, WITH THE BOTTOM OF THE SIGN EVEN WITH THE BOTTOM OF THE SIGNAL HEAD, OR BACK PLATE.
5. ALL STREET SIGNS MOUNTED ON THE MAST ARM OR SPAN WIRE SHALL BE INSTALLED 2 FEET TO THE RIGHT OF THE RIGHTMOST OBJECT (SIGNAL HEAD OR SIGN) ON THE ARM UNLESS OTHERWISE SHOWN ON THE PLANS.
6. STREET SIGNS LESS THAN 7.5 FEET LONG SHALL HAVE A MINIMUM OF TWO MOUNTS ON THE MAST ARM. STREET SIGNS GREATER THAN 7.5 FEET LONG SHALL HAVE A MINIMUM OF THREE MOUNTS. STREET SIGNS SHALL BE INSTALLED PERPENDICULAR TO THE APPROACH, IN LINE WITH THE MAST ARM. MOUNTING EQUIPMENT USED SHALL BE SIMILAR TO THAT USED FOR ITEM 680.8207.

**PAVEMENT MARKINGS:**

1. PAVEMENT MARKINGS SHOWN ON THE TRAFFIC SIGNAL PLANS, UNLESS OTHERWISE NOTED, ARE FOR DESIGN PURPOSES ONLY.

**ELECTRICAL SERVICE:**

1. ITEM NUMBERS 680.95010415 SERVICE CABLE, SINGLE CONDUCTOR, NO. 04 AWG, AND 680.95010615 SERVICE CABLE, SINGLE CONDUCTOR, NO. 06 AWG, SHALL BE FURNISHED WITH THREE CONDUCTORS. TWO BLACK COLORED CONDUCTORS, AND ONE WHITE COLORED CONDUCTOR.
2. THE METER CHANNEL SHALL BE INSTALLED SUCH THAT IT IS LOCATED AWAY FROM VEHICULAR TRAFFIC FLOW, AND AT A HEIGHT THAT COMPLIES WITH THE LOCAL UTILITY COMPANY.
3. FOR NEW OR REVISED ELECTRICAL SERVICE ORDERS (ESO'S) IN THE NATIONAL GRID TERRITORY, THE CONTRACTOR SHALL CALL NATIONAL GRID AT (315) 460-1135 INSTEAD OF THE TOLL FREE NUMBER.
4. POWER SERVICE TO SIGNALS INSTALLED SHALL BE IN COMPLIANCE WITH REQUIREMENTS OF THE NATIONAL ELECTRIC CODE.

**CONTRACTOR:**

1. NO PROPOSAL WHICH MODIFIES THE APPROVED DESIGN PLAN SUGGESTED BY EITHER THE CONTRACTOR, OR CONSTRUCTION PERSONNEL SHALL BE MADE IN THE FIELD WITHOUT FIRST CONSULTING WITH THE REGIONAL TRAFFIC SAFETY AND MOBILITY GROUP AT (315) 428-4064. THESE CHANGES INCLUDE, BUT ARE NOT LIMITED TO, 90 DEGREE BENDS IN THE CONDUITS.
2. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT THERE MAY BE OTHER CONTRACTORS WORKING WITHIN THE LIMITS OF WORK FOR THIS CONTRACT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE WORK OF THIS CONTRACT WITH THAT OF OTHERS SO THERE IS NO CONFLICT.

**SALVAGE:**

1. CONTRACTOR SHALL PROVIDE 14 DAYS ADVANCE NOTICE TO TRAFFIC SIGNAL MAINTENANCE AT (315) 428-4064 TO SCHEDULE DROP OFF TIME TO THE NYS DOT SIGNAL SHOP OF ALL EQUIPMENT LISTED ON THE SIGNAL PLAN SHEET TO BE REMOVED AND DELIVERED BY CONTRACTOR TO STATE FORCES. THIS SHALL INCLUDE AN ITEMIZED LIST WHICH WILL BE SIGNED BY TRAFFIC SIGNAL MAINTENANCE WITH A COPY PROVIDED TO THE CONTRACTOR.

**UTILITES:**

1. THE APPROXIMATE LOCATION OF UNDERGROUND UTILITIES MAY BE SHOW ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE TRUE LOCATION BEFORE COMMENCING WORK. BEFORE ANY PIPE IS PLACED, THE CONTRACTOR SHALL UNCOVER ALL UTILITIES AT PIPE CROSSINGS TO ENABLE THE ENGINEER TO VERIFY THE PROPOSED PIPE WITH GRADES SHOWN ON THE PLANS IS NOT OBSTRUCTED BY EXISTING UTILITIES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL UTILITY WORK WITH THE RESPECTIVE OWNERS DURING CONSTRUCTION. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR VARIOUS ITEMS IN THE CONTRACT.
3. ALL SIGNAL EQUIPMENT SHALL BE PLACED IN A LOCATION THAT COMPLIES WITH THE NYS HIGH VOLTAGE PROXIMITY ACT. THIS INCLUDES, BUT IS NOT LIMITED TO, KEEPING ALL SIGNAL EQUIPMENT A MINIMUM OF 10 FT FROM PRIMARY LINES, AND 2 FT FROM SECONDARY AND ALL OTHER LINES.
4. CONTRACTOR IS TO CONTACT DIG SAFELY NEW YORK AT 811 FOR MARK OUT OF ALL UNDERGROUND SIGNAL CONDUIT AND LOOP WIRE PRIOR TO ANY DIGGING. ANY BROKEN SIGNAL WIRE CANNOT BE SPLICED. A NEW RUN OF WIRE FROM THE POLE TO THE FURTHEST END MUST BE REPLACED.
5. UNDERGROUND UTILITY LOCATIONS ARE NOT GUARANTEED, NOR IS THERE ANY GUARANTEE THAT ALL EXISTING UTILITIES, WHETHER FUNCTIONAL OR ABANDONED, WITHIN THE PROJECT AREA ARE SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES BEFORE STARTING WORK AND SHALL BE RESPONSIBLE FOR ALL DAMAGE RESULTING FROM THEIR WORK. CONTRACTOR SHALL NOTIFY DIG SAFELY NEW YORK AT 811 IN ACCORDANCE WITH 16 NYCRR PART 753.

**HIGHWAY MAINTENANCE:**

1. UPON COMPLETION AND ACCEPTANCE OF THIS CONTRACT, THE HIGHWAY WILL CONTINUE TO BE MAINTAINED BY THOSE AGENCIES WHICH HAD JURISDICTION PRIOR TO THIS CONTRACT.



**EMERGENCY REPAIR:**

1. THE CONTRACTOR SHALL PROVIDE THE LOCAL POLICE THE NAME, ADDRESS AND TELEPHONE NUMBER OF A PERSON OR PERSONS AUTHORIZED OUTSIDE THE NORMAL CONTRACT WORKING HOURS TO SECURE AND USE LABOR, MATERIALS, AND EQUIPMENT FOR EMERGENCY REPAIRS TO MAKE SAFE THE ENTIRE AREA OF THE CONTRACT. DUPLICATE COPIES OF SUCH NOTICES SHALL BE FILED WITH THE EIC, TRAFFIC SIGNAL MAINTENANCE, AND THE REGIONAL DIRECTOR.

**COORDINATION OF CONSTRUCTION ACTIVITIES:**

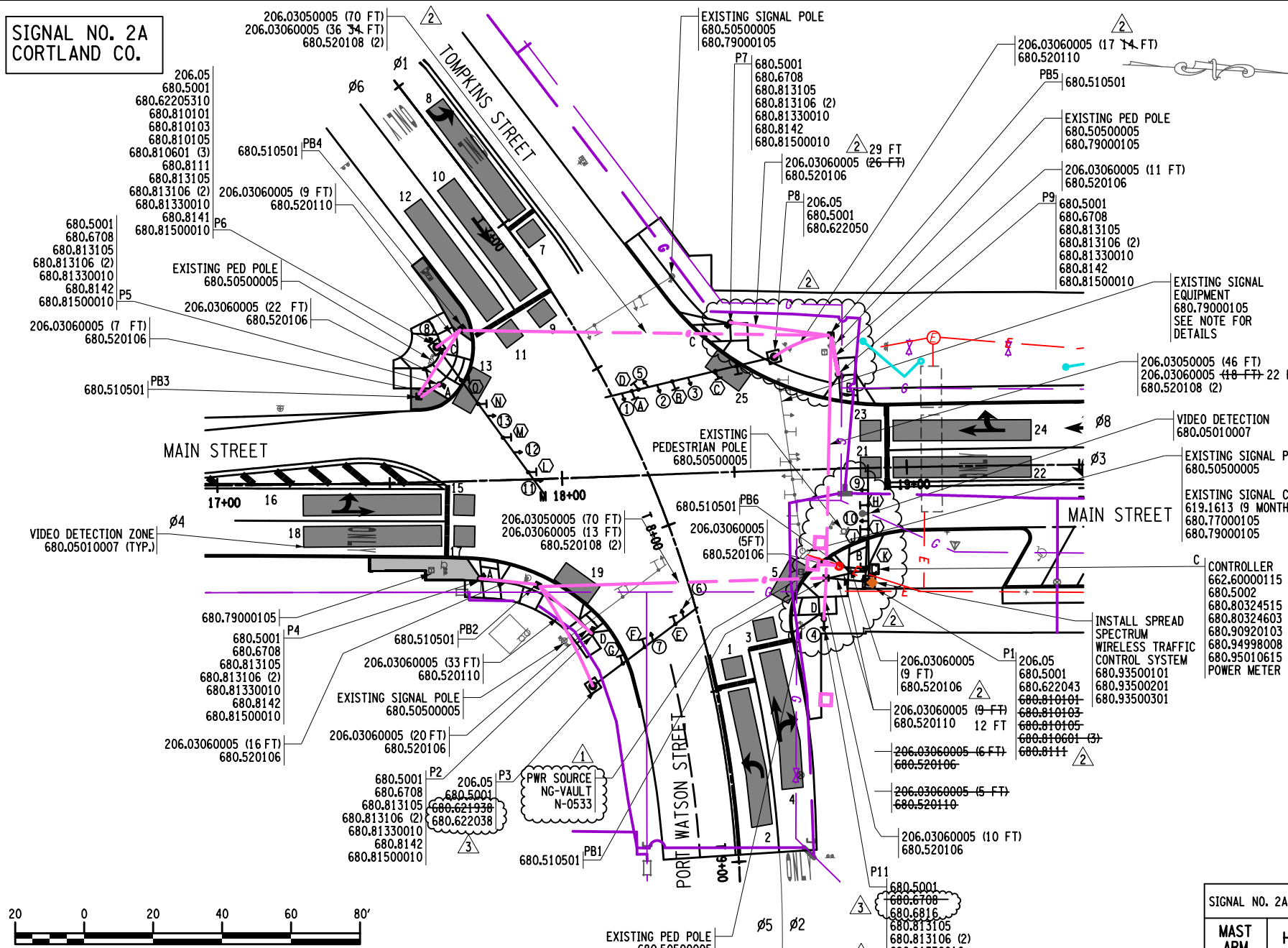
1. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING CONSTRUCTION OPERATIONS AND SIGNING FOR THIS CONTRACT WITH THE OPERATIONS AND SIGNING OF OTHER WORK WITHIN THE CONTRACT LIMITS.
2. THE EXISTING SIGNAL HEADS AND OVERHEAD SIGNS CAN NOT BE BLOCKED BY THE NEW SIGNAL HEADS AND OVERHEAD SIGNS AT ANY POINT DURING CONSTRUCTION. NEW SIGNAL HEADS AND OVERHEAD SIGNS SHALL REMAIN COVERED UNTIL THE DAY THE NEW SIGNAL IS TO BE TURNED ON.
3. REMOVAL OF EXISTING SIGNAL EQUIPMENT SHALL NOT BEGIN UNTIL THE NEW SIGNAL HAS BEEN PLACED INTO OPERATION AND VERIFIED BY NYS DOT SIGNALS, UNLESS PRIOR PERMISSION HAS BEEN GIVEN BY NYS DOT TRAFFIC SIGNAL MAINTENANCE.
4. THE CONTRACTOR SHALL REMOVE ALL EXISTING MAST ARMS AT THE INTERSECTION THE SAME DAY THE NEW SIGNAL HAS BEEN PLACED INTO OPERATION AND VERIFIED BY NYS DOT SIGNALS.
5. ALL EXISTING COMMUNICATION EQUIPMENT BEING REUSED, INCLUDING RADIO ANTENNAS, ANTENNA CABLE, SHIELDED COMMUNICATION CABLES, AND CABLE MODEMS SHALL BE RELOCATED TO THE NEW INTERSECTION BY THE CONTRACTOR BEFORE TURNING ON THE NEW SIGNALS, BUT NO SOONER THAN 48 HOURS PRIOR TO PLACING THE NEW SIGNAL INTO OPERATION UNLESS OTHERWISE NOTED ON THE PLAN SHEET. ALL PROPOSED COMMUNICATION EQUIPMENT SHALL BE INSTALLED AT THE NEW INTERSECTION BY THE CONTRACTOR PRIOR TO PLACING THE NEW SIGNAL INTO OPERATION.

200395.dgn TSN-2.dgn  
24-MAR-2022 17:50 TIME  
T.mD

 <p><b>FISHER ASSOCIATES</b> WWW.FISHERASSOC.COM</p>		 <p>STATE OF NEW YORK THOMAS FAULKNER 07740 LICENSED PROFESSIONAL ENGINEER</p>	<p>PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK</p> <p>TITLE OF DRAWING: TRAFFIC SIGNAL NOTES - NYS DOT NOTES MAIN STREET &amp; TOMPKINS STREET &amp; PORT WATSON STREET</p>
<p>EA PROJECT NO. 200395 PROJECT MANAGER T. FAULKNER DRAWN BY L.O'CONNELL SCALE NO SCALE</p>	<p>ISSUE DATE FEB. 2022</p>	<p>DESCRIPTION</p>	<p>DATE</p>
<p>7</p>	<p>6</p>	<p>5</p>	<p>4</p>
<p>3</p>	<p>2</p>	<p>1</p>	<p>REV</p>
<p>COPYRIGHT © 2022 FISHER ASSOCIATES, P.C., L.S., L.A., D.P.C. New York State Education Law Section 115.6(3) requires that this drawing be prepared by a licensed professional engineer or land surveyor, to alter in any way, or to be used for any other purpose than that for which it was prepared, the drawing must be signed and sealed by the drawing engineer or land surveyor. The notation "prepared by" followed by the signature and seal of the engineer or land surveyor, and a specific description of the contract.</p>			

**SIGNAL NO. 2A  
CORTLAND CO.**

FIELD CHANGE SHEET  
THIS SHEET SUPERSEDES SHEET 86F2

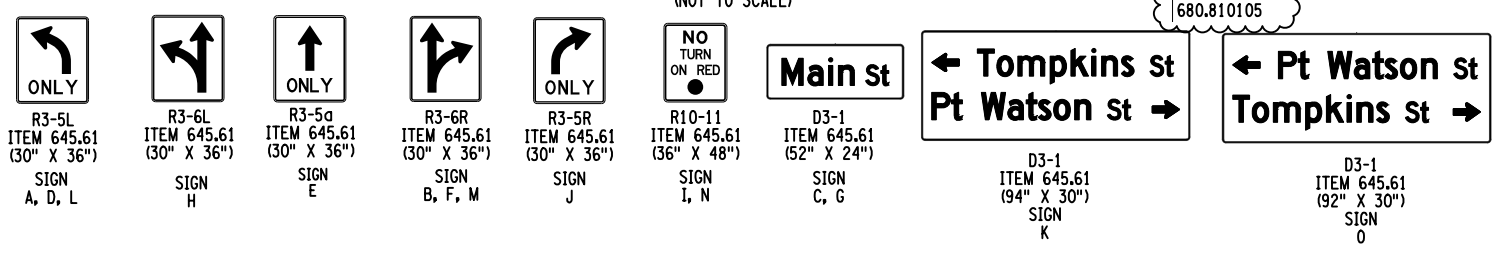


**NOTES:**

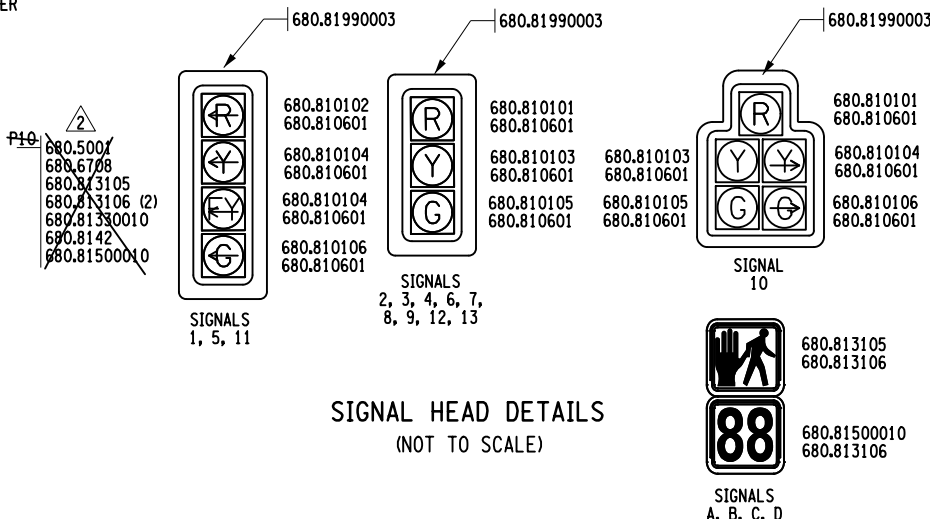
- STANDARD SPECIFICATION 680.67XX IS MODIFIED ALLOWING ONLY ALUMINUM TRAFFIC SIGNAL POLES TO BE USED FOR THE FLASHING BEACONS. POLE BASE SHALL HAVE 9-10 INCH BOLT CIRCLE, NO TRANSFORMER BASE IS ALLOWED.
- THE CONTRACTOR SHALL SUBMIT CATALOG CUTS FOR ALL TRAFFIC SIGNAL ITEMS TO TRAFFIC SAFETY & MOBILITY GROUP FOR REVIEW AND APPROVAL.
- CONTRACTOR SHALL PROVIDE 14 DAYS NOTICE TO THE REGIONAL TRAFFIC SAFETY AND MOBILITY GROUP AT (315) 428-4064 PRIOR TO INSTALLING THE VIDEO DETECTION EQUIPMENT TO DETERMINE THE OPTIMAL DETECTOR LOCATION AND TO PROVIDE ELECTRICAL DISCONNECT/GENERATOR TRANSFER SWITCH, ITEM 680.94998008, AND THE CONTROLLER CABINET.
- ITEM 680.81990003 - TRAFFIC SIGNAL BACKPLATES WITH YELLOW REFLECTIVE TAPE SHALL BE MODIFIED TO ONLY ALLOW 5 INCH NON-LOUVERED FLAT BLACK FINISHED BACKPLATES WITH A 3" WIDE YELLOW RETROREFLECTIVE TAPE BORDER AROUND THE OUTSIDE EDGE.
- ITEM 680.77000105 - MODIFY TRAFFIC SIGNAL INSTALLATION, LOCATION 0001. THIS ITEM SHALL INCLUDE THE RELOCATION OF ALL SIGNAL COMMUNICATION EQUIPMENT TO THE NEW CABINET.
- ITEM 680.79000105 - REMOVE TRAFFIC SIGNAL INSTALLATION, LOCATION 0001. THIS ITEM SHALL INCLUDE: REMOVAL AND DISPOSAL OF EXISTING MAST ARM POLES, PEDESTRIAN POLES, SIGNAL BRACKETS, WIRING, SIGNAL SECTIONS, AND NON-LED SIGNAL MODULES.
- REMOVAL AND DELIVERY OF ALL LED MODULES, PEDESTRIAN BUTTONS AND SIGNS, THE CONTROLLER, THE CONTROLLER CABINET, AND ALL ITS CONTENTS DIRECTLY TO STATE FORCES. PLEASE CONTACT NYSOT TRAFFIC SIGNAL MAINTENANCE AT (315) 428-4064 TO SCHEDULE DROP OFF TIME TO THE NYSOT SIGNAL SHOP IN NORTH SYRACUSE, NY. TRAFFIC SIGNAL MAINTENANCE SHALL VERIFY ALL SIGNAL EQUIPMENT WITH QUANTITIES THAT HAVE BEEN DELIVERED FOR THIS SPECIFIC LOCATION.
- REMOVAL OF ALL EXISTING PULLBOXES NOT BEING USED AGAIN. PULLBOXES SHALL BE REMOVED AND BACKFILLED IN ACCORDANCE WITH THE EXCAVATION SECTION IN THE GENERAL SIGNAL NOTES.
- ITEM 680.95010615 - SERVICE CABLE, 1 CONDUCTOR, NO. 6 AWG SHALL CONSIST OF 3 WIRES, TWO BLACK AND ONE WHITE.

- NOTES:**
- THE GENERAL NETWORK SECONDARY WILL BE THE SOURCE OF POWER.

**SIGN DETAILS**  
(NOT TO SCALE)



POLE NUMBER	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11
LOCATION (COORDINATES)	N: 946752.339 E: 928758.879	N: 946672.814 E: 928777.985	N: 946674.036 E: 928793.243	N: 946640.086 E: 928763.871	N: 946624.902 E: 928708.636	N: 946623.589 E: 928697.588	N: 946708.177 E: 928685.904	N: 946721.422 E: 928695.214	N: 946740.134 E: 928699.232	N: 946746.006 E: 928757.269	N: 946739.796 E: 928769.165
POLE HEIGHT (FT)	20	8	19-20	8	8	20	8	20	8	8	8
FOUNDATION CODE	10-L	J-1	9-L	J-1	J-1	13-L	J-1	13-L	J-1	J-1	J-1



MAST ARM	HEADS	TYPE	DESCRIPTION	WEIGHT	PROJECTED AREA	FOOTING MOMENTS **	FOOTING TYPE
1 (NE)	9, 10	34 FT ARM 20 FT HGT	••• 1-5 SECTION FACE ••• 1-3 SECTION FACE • 3 OVERHEAD SIGN • 2 OVERHEAD SIGN • 1 OVERHEAD SIGN	3 AT 75 LB EA 2 AT 120 LB EA 1 AT 196 LB EA	2 AT 16.7 SF EA 3 AT 7.5 SF EA 2 AT 12 SF EA 1 AT 19.6 SF EA	154.81	10-K,L,M
3 (SE)	6, 7	38 FT ARM 19 FT HGT 20	••• 2-3 SECTION FACE • 3 OVERHEAD SIGN • 1 OVERHEAD SIGN • 1 OVERHEAD SIGN	3 AT 75 LB EA 1 AT 87 LB EA 1 AT 120 LB EA	2 AT 16.7 SF EA 3 AT 7.5 SF EA 1 AT 8.7 SF EA 1 AT 12 SF EA	129.88	9-J,K,L,M
6 (SW)	11, 12, 13	53 FT ARM 20 FT HGT	••• 1-4 SECTION FACE ••• 2-3 SECTION FACE • 3 OVERHEAD SIGN • 2 OVERHEAD SIGN • 1 OVERHEAD SIGN	3 AT 75 LB EA 2 AT 120 LB EA 1 AT 192 LB EA	3 AT 16.7 SF EA 3 AT 7.5 SF EA 2 AT 12 SF EA 1 AT 19.2 SF EA	217.82	13-K,L,M
8 (NW)	1, 2, 3, 5	50 FT ARM 20 FT HGT	••• 2-4 SECTION FACE ••• 2-3 SECTION FACE • 4 OVERHEAD SIGN • 1 OVERHEAD SIGN • 1 OVERHEAD SIGN	4 AT 75 LB EA 1 AT 87 LB EA 1 AT 120 LB EA	4 AT 16.7 SF EA 4 AT 7.5 SF EA 1 AT 8.7 SF EA 1 AT 12 SF EA	210.50	13-K,L,M

- TWO ADDITIONAL SIGNS INCLUDED BASED UPON ANTICIPATED LOADING. FOR DESIGN PURPOSES, THE LARGER FUTURE SIGN SHALL BE PLACED ON THE END OF THE MAST ARM, THE SMALLER FUTURE SIGN SHALL BE PLACED MID-SPAN ON THE MAST ARM.
- TABLE BASED UPON POSSIBLE FUTURE LOADING NEEDS. THE POLE MANUFACTURER AND CONTRACTOR SHALL BE RESPONSIBLE TO DESIGN THE SIGNAL POLE AND MAST ARM TO MEET THESE FUTURE NEEDS.
- ALL SIGNAL HEADS SHALL HAVE BACKPLATES FOR CALCULATIONS. BACKPLATES SHALL BE INSTALLED ON ALL SIGNAL HEADS.

PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK

TITLE OF DRAWING: TRAFFIC SIGNAL PLAN  
MAIN STREET & TOMPKINS STREET & PORT WATSON STREET

DATE: 4/15/2024

ISSUE DATE: FEB. 2022

SCALE: AS SHOWN

DESIGNER: A. BENHUMEA

DRAWN BY: A. BENHUMEA

PROJECT MANAGER: T. FAULKNER

ENGINEER: T. FAULKNER

STATE OF NEW YORK LICENSED PROFESSIONAL ENGINEER 071088

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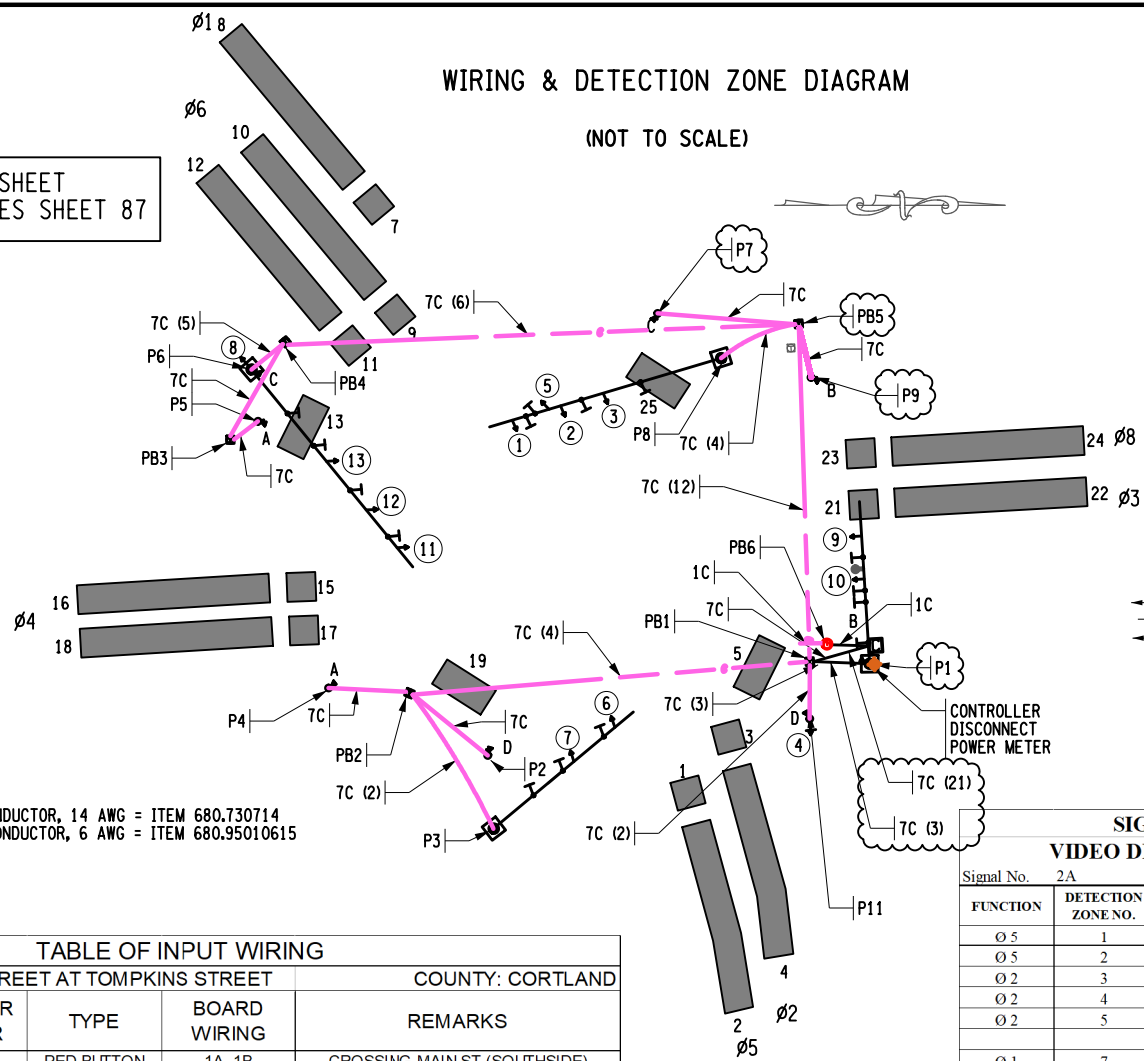
SHEET 86 F3 OF 171

SIGNAL NO. 2A  
CORTLAND CO.

FIELD CHANGE SHEET  
THIS SHEET SUPERSEDES SHEET 87

WIRING & DETECTION ZONE DIAGRAM

(NOT TO SCALE)

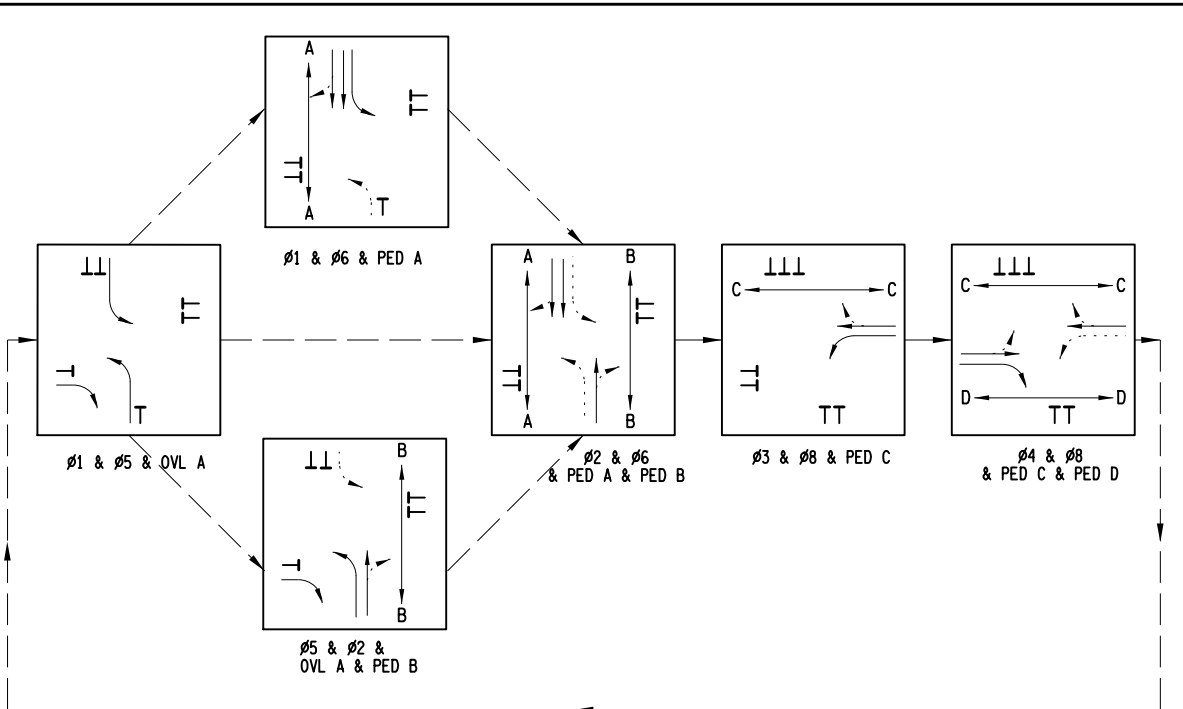


WIRING LEGEND

7C = SIGNAL CABLE 7 CONDUCTOR, 14 AWG = ITEM 680.730714  
1C = SERVICE CABLE 1 CONDUCTOR, 6 AWG = ITEM 680.95010615

SIGNAL NO. 2A	MAIN STREET AT TOMPKINS STREET		COUNTY: CORTLAND	
FUNCTION	DETECTOR NUMBER	TYPE	BOARD WIRING	REMARKS
PED A (6)	A1 - A2	PED BUTTON	1A, 1B	CROSSING MAIN ST (SOUTH SIDE)
PED B (2)	B1 - B2	PED BUTTON	2A, 2B	CROSSING MAIN ST (NORTH SIDE)
PED C (8)	C1 - C2	PED BUTTON	3A, 3B	CROSSING TOMPKINS ST
PED D (4)	D1 - D2	PED BUTTON	4A, 4B	CROSSING PORT WATSON ST
			5A, 5B	
			6A, 6B	
			7A, 7B	
			8A, 8B	

PREFERENTIAL PHASING SEQUENCE



		FROM					
		G	R	R/G	G/Y	FY	R
TO	G	X	R	R	X	X	X
	R	Y	X	R	X	X	X
	R/G	Y	Y	X	X	X	X
	G/Y	X	X	X	X	X	X
TO	G	X	X	X	X	X	X
	R	X	X	X	X	X	X
	R/G	X	X	X	X	X	X
	G/Y	X	X	X	X	X	X

- Y = CIRCULAR YELLOW
- ←Y = LEFT YELLOW ARROW
- Y = RIGHT YELLOW ARROW
- ←FY = FLASHING LEFT YELLOW ARROW
- R = CIRCULAR RED
- ←R = LEFT RED ARROW
- R = RIGHT RED ARROW
- ←FR = FLASHING LEFT RED ARROW
- ←G = CIRCULAR GREEN
- ←G = LEFT GREEN ARROW
- G = RIGHT GREEN ARROW
- G = VERTICAL GREEN ARROW

SIGNAL NO.	DETECTION ZONE NO.	SDLC CHANNEL	SIZE	REMARKS	
2A	1	33	6' X 6'	PORT WATSON ST. WB LEFT COUNT	
	2	34	6' X 40'	PORT WATSON ST. WB LEFT	
	3	35	6' X 6'	PORT WATSON ST. WB THRU/RIGHT COUNT	
	4	36	6' X 40'	PORT WATSON ST. WB THRU/RIGHT	
	5	37	6' X 12'	PORT WATSON ST. WB RADIUS	
			38		
	7	39	6' X 6'	TOMPKINS ST. EB LEFT COUNT	
	8	40	6' X 40'	TOMPKINS ST. EB LEFT	
	9	41	6' X 6'	TOMPKINS ST. EB THRU COUNT	
	10	42	6' X 40'	TOMPKINS ST. EB THRU	
	11	43	6' X 6'	TOMPKINS ST. EB THRU/RIGHT COUNT	
	12	44	6' X 40'	TOMPKINS ST. EB THRU/RIGHT	
	13	45	6' X 12'	TOMPKINS ST. EB RADIUS	
			46		
	15	47	6' X 6'	MAIN ST. NB LEFT/THRU COUNT	
	16	48	6' X 40'	MAIN ST. NB LEFT/THRU	
17	49	6' X 6'	MAIN ST. NB RIGHT COUNT		
18	50	6' X 40'	MAIN ST. NB RIGHT		
19	51	6' X 12'	MAIN ST. NB RADIUS		
		52			
21	53	6' X 6'	MAIN ST. SB LEFT COUNT		
22	54	6' X 40'	MAIN ST. SB LEFT		
23	55	6' X 6'	MAIN ST. SB THRU/RIGHT COUNT		
24	56	6' X 40'	MAIN ST. SB THRU/RIGHT		
25	57	6' X 12'	MAIN ST. SB RADIUS		
		58			
		59			
		60			
		61			
		62			
		63			
		64			

SWITCH PACK	FUNCTION	FACE NO.'s	FLASH PLUG	INDICATIONS	TERMINAL WIRING BOARD	
					TERMINAL	WIRING COLORING CODE
					SP 1	OVL B (Ø 1)
SP 2	Ø 2	2, 3 4	R	R Y G GROUND WIRE	147C - 2 - R 147C - 2 - O 147C - 2 - G 147C - 2 - WB	
SP 3	OVL C (Ø 3)	11	W	SP 3R SP 3Y SP 3G GROUND WIRE	147C - 4 - B 147C - 4 - WB	
SP 4	Ø 4	9, 10	R	R Y G GROUND WIRE	147C - 5 - R 147C - 5 - O 147C - 5 - G 147C - 5 - WB	
SP 5	OVL D (Ø 5)	1	W	SP 5R SP 5Y SP 5G GROUND WIRE	147C - 6 - B 147C - 6 - WB	
SP 6	Ø 6	6, 7 8	R	R Y G GROUND WIRE	147C - 7 - R 147C - 7 - O 147C - 7 - G 147C - 7 - WB	
SP 7	OVL A (Ø 5)	10	W	SP 7R SP 7Y SP 7G GROUND WIRE	147C - 5 - BL 147C - 5 - B 147C - 5 - WB	
SP 8	Ø 8	12, 13	R	R Y G GROUND WIRE	147C - 9 - R 147C - 9 - O 147C - 9 - G 147C - 9 - WB	
SP 9	Ø 1	5	R	R Y G GROUND WIRE	147C - 1 - R 147C - 1 - O 147C - 1 - G 147C - 1 - WB	
SP 10	Ø 3	11	R	R Y G GROUND WIRE	147C - 4 - R 147C - 4 - O 147C - 4 - G 147C - 4 - WB	
SP 11	Ø 5	1	R	R Y G GROUND WIRE	147C - 6 - R 147C - 6 - O 147C - 6 - G 147C - 6 - WB	
SP 12				HAND MAN GROUND WIRE	SP 12R SP 12Y SP 12G 147C - 10 - R 147C - 10 - O 147C - 10 - G 147C - 10 - WB	
SP 13	PED A (Ø 6)	A1 A2	W	HAND MAN GROUND WIRE	SP 13R SP 13Y SP 13G 147C - 10 - R 147C - 10 - O 147C - 10 - G 147C - 10 - WB	
SP 14	PED B (Ø 2)	B1 B2	W	HAND MAN GROUND WIRE	SP 14R SP 14Y SP 14G 147C - 12 - R 147C - 12 - O 147C - 12 - G 147C - 12 - WB	
SP 15	PED C (Ø 8)	C1 C2	W	HAND MAN GROUND WIRE	SP 15R SP 15Y SP 15G 147C - 14 - R 147C - 14 - O 147C - 14 - G 147C - 14 - WB	
SP 16	PED D (Ø 4)	D1 D2	W	HAND MAN GROUND WIRE	SP 16R SP 16Y SP 16G 147C - 16 - R 147C - 16 - O 147C - 16 - G 147C - 16 - WB	

COLOR: R-RED, O-ORANGE, G-GREEN, BL-BLUE, W-WHITE, B-BLACK  
KEY FOR WIRE COLOR CODE  
AWG NO. OF CONDUCTORS  
CABLE NO. FOR THE GIVEN CONDUCTOR SIZE  
14/19C-1-R/B XX/XC-X-X/X  
TRACER COLOR  
COLOR OF WIRE

FACE \ PHASE	1	2	3	4	5	6	7	8	9	10	11	12	13	PED A	PED B	PED C	PED D
Ø 1 & Ø 5 & OVL A	←G	R	R	R	←G	R	R	R	R	R/G	←R	R	R	HAND	HAND	HAND	HAND
Ø 1 & Ø 6 & PED A	←FY	R	R	R	←G	R	R	R	R	R	←R	R	R	HAND	HAND	HAND	HAND
Ø 2 & Ø 5 & OVL A & PED B	←G	G	G	G	←FY	R	R	R	R	R/G	←R	R	R	HAND	HAND	HAND	HAND
Ø 2 & Ø 6 & PED A & PED B	←FY	G	G	G	←FY	R	R	R	R	R	←R	R	R	HAND	HAND	HAND	HAND
Ø 3 & Ø 8 & PED C	←R	R	R	R	←R	R	R	R	R	R	←G	G	G	HAND	HAND	HAND	HAND
Ø 4 & Ø 8 & PED C & PED D	←R	R	R	R	←R	R	R	R	R	G	←Y	G	G	HAND	HAND	HAND	HAND
EMERGENCY FLASH	DARK	FR	FR	FR	DARK	FR	FR	FR	FR	FR	DARK	FR	FR	DARK	DARK	DARK	DARK

UPON ACTUATION OF A PEDESTRIAN PUSH BUTTON, A "WALKING MAN" INDICATION FOLLOWED BY A FLASHING "HAND" INDICATION FOLLOWED BY A STEADY "HAND" WILL BE DISPLAYED, AND COUNTDOWN TIMER IS INITIATED.

DATE: 9/23 AB BY

REV: 1

DESCRIPTION: POLE & CONDUIT CHANGES

SCALE: NO SCALE

ISSUE DATE: FEB. 2022

DRAWN BY: A. BENVHUMEA

PROJECT NO.: 200395

PROJECT MANAGER: T. FAULKNER

ENGINEER: T. FAULKNER

STATE OF NEW YORK LICENSED PROFESSIONAL ENGINEER 071088

FISHER ASSOCIATES

WWW.FISHERASSOC.COM

PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK

TITLE OF DRAWING: TRAFFIC SIGNAL PLAN - WIRING DIAGRAM & TABLES MAIN STREET & TOMPKINS STREET & PORT WATSON STREET

DRAWING NO.: TSP-02

SHEET 87 F1 OF 171



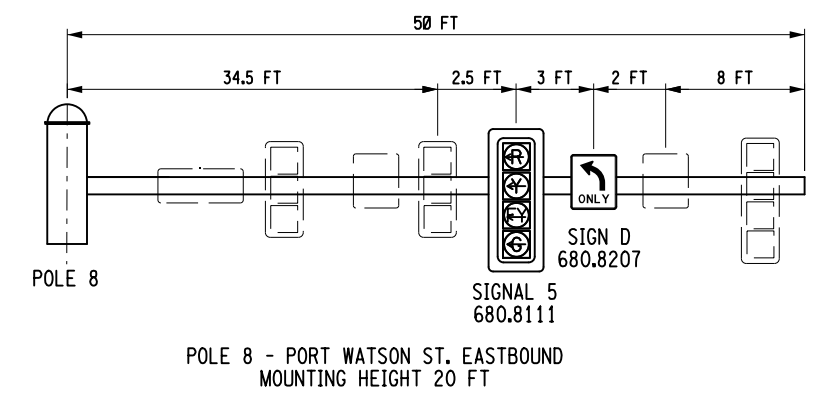
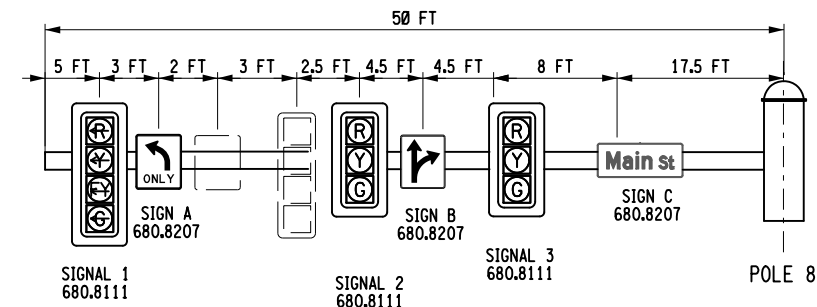
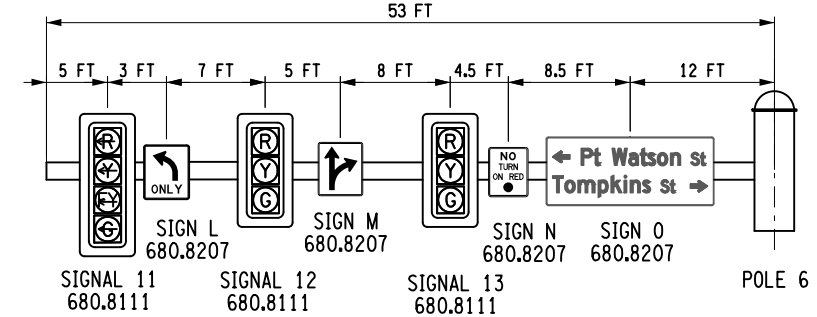
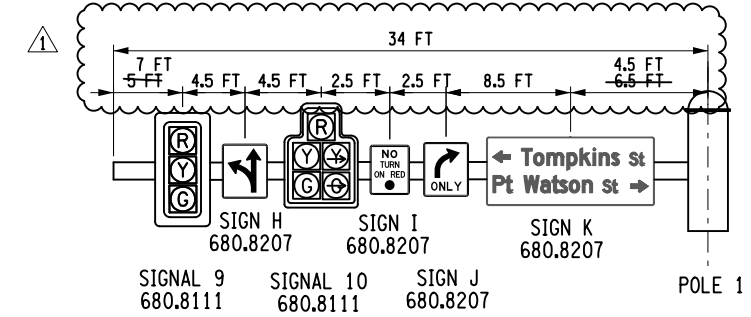
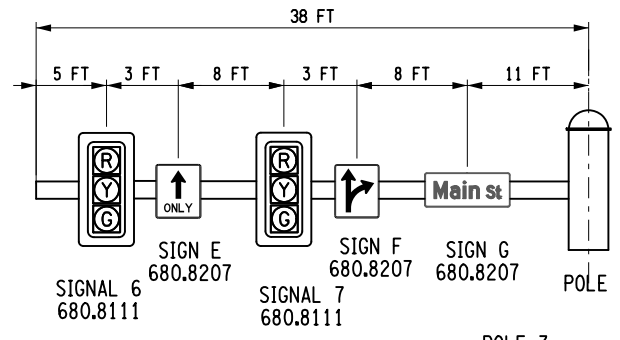
SIGNAL NO. 2A  
CORTLAND CO.

FIELD CHANGE SHEET  
THIS SHEET SUPERSEDES SHEET 88F1

QUANTITY AND ITEM LIST

MAIN STREET & TOMPKINS STREET & PORT WATSON STREET

ITEM NO.	DESCRIPTION	UNIT	QTY
206.03050005	CONDUIT EXCAVATION AND BACKFILL (IN EXISTING ROADWAY)	LF	200
206.03060005	CONDUIT EXCAVATION AND BACKFILL (NOT IN ROADWAY)	LF	270
206.05	TEST PIT EXCAVATION	EACH	4
619.1611	MAINTAIN TRAFFIC SIGNAL EQUIPMENT (REQUIREMENT A)	INTM	9
619.1613	MAINTAIN TRAFFIC SIGNAL EQUIPMENT (REQUIREMENT C)	INTM	9
645.61	OVERHEAD SIGN PANELS	SF	147.7
662.60000115	FURNISHING ELECTRICAL SERVICE	LS	1
680.05010007	360 DEGREE CAMERA VIDEO DETECTION SYSTEM	EACH	1
680.5001	POLE EXCAVATION AND CONCRETE FOUNDATION	CY	22.9
680.5002	CONCRETE BASE FOR CONTROLLER CABINET	EACH	1
680.50500005	REMOVE POLE FOUNDATIONS	LF	46
680.510501	PULLBOX-RECTANGULAR, 26 X 18 INCH, REINFORCED CONCRETE	EACH	6
680.520106	CONDUIT, METAL STEEL, ZINC COATED, 2"	LF	115
680.520108	CONDUIT, METAL STEEL, ZINC COATED, 3"	LF	530
680.520110	CONDUIT, METAL STEEL, ZINC COATED, 4"	LF	65
680.622034	TRAFFIC SIGNAL POLE, MAST ARM, 20 FEET MOUNTING HEIGHT, 34 FEET ARM LENGTH	EACH	1
680.622038	TRAFFIC SIGNAL POLE, MAST ARM, 20 FEET MOUNTING HEIGHT, 38 FEET ARM LENGTH	EACH	1
680.622050	TRAFFIC SIGNAL POLE, MAST ARM, 20 FEET MOUNTING HEIGHT, 50 FEET ARM LENGTH	EACH	1
680.62205310	MAST ARM TRAFFIC SIGNAL POLE-MAST ARM LENGTH 51 FT TO 65 FT (FATIGUE DESIGN)	EACH	1
680.6708	TRAFFIC SIGNAL POLE POST TOP MOUNT 8 FEET MOUNTING HEIGHT	EACH	7.6
680.6816	TRAFFIC SIGNAL POLE-BRACKET MOUNT 16 FEET MOUNTING HEIGHT	EACH	1
680.730714	SIGNAL CABLE 7 CONDUCTORS, 14 AWG	LF	4040
680.77000105	MODIFY TRAFFIC SIGNAL INSTALLATION (LOCATION 1)	ELOC	1
680.79000105	REMOVE TRAFFIC SIGNAL INSTALLATION (LOCATION 1)	ELOC	1
680.80324515	INSTALL MICROCOMPUTER CABINET	EACH	1
680.80324603	MICROCOMPUTER TRAFFIC SIGNAL CABINET BASE	EACH	1
680.810101	TRAFFIC SIGNAL MODULE - 12 INCH, RED BALL, LED	EACH	10
680.810102	TRAFFIC SIGNAL MODULE - 12 INCH, RED ARROW, LED	EACH	3
680.810103	TRAFFIC SIGNAL MODULE - 12 INCH, YELLOW BALL, LED	EACH	10
680.810104	TRAFFIC SIGNAL MODULE - 12 INCH, YELLOW ARROW, LED	EACH	7
680.810105	TRAFFIC SIGNAL MODULE - 12 INCH, GREEN BALL, LED	EACH	10
680.810106	TRAFFIC SIGNAL MODULE - 12 INCH GREEN ARROW, LED	EACH	4
680.810601	TRAFFIC SIGNAL SECTION - POLY CARBONATE, TYPE I, 12 INCH	EACH	44
680.8111	TRAFFIC SIGNAL BRACKET ASSEMBLY - 1 WAY	EACH	13
680.813105	PEDESTRIAN SIGNAL MODULE - 12 INCH BI-MODAL, HAND/MAN SYMBOLS LED	EACH	8
680.813106	PEDESTRIAN SIGNAL SECTION - POLY CARBONATE, TYPE I, 12 INCH	EACH	16
680.81330010	AUDIBLE PEDESTRIAN SIGNAL	EACH	8
680.8141	PEDESTRIAN SIGNAL BRACKET MOUNT ASSEMBLY	EACH	23
680.8142	PEDESTRIAN SIGNAL POST TOP MOUNT ASSEMBLY	EACH	5
680.81500010	PEDESTRIAN COUNT-DOWN TIMER MODULE	EACH	8
680.81990003	TRAFFIC SIGNAL BACKPLATES WITH YELLOW REFLECTIVE TAPE	EACH	13
680.8207	OVERHEAD SIGN ASSEMBLY, TYPE G	EACH	15
680.90920103	ELECTRIC METER CHANNEL, 100 AMPERE, SINGLE PHASE, 240 VOLTS FOR TRAFFIC	EACH	1
680.93500101	SPREAD SPECTRUM WIRELESS TRAFFIC CONTROL	EACH	1
680.93500201	DIRECTIONAL YAGI ANTENNA FOR SPREAD SPECTRUM WIRELESS TRAFFIC CONTROL	EACH	1
680.93500301	REMOTE ANTENNA CABLE FOR SPREAD SPECTRUM WIRELESS TRAFFIC CONTROL	LF	50
680.94998008	INSTALL ELECTRICAL DISCONNECT GENERATOR TRANSFERSWITCH - STATE SUPPLIED	EACH	1
680.95010615	SERVICE CABLE 1 CONDUCTOR, NO. 06 AWG	LF	80
680.95600004	ELECTRIC METER PAN	EACH	1



PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK

TITLE OF DRAWING: TRAFFIC SIGNAL PLAN MAIN STREET & TOMPKINS STREET & PORT WATSON STREET

DATE: 4/12/24

BY: AB

DATE: 9/5/23

DESCRIPTION: DIMENSION CHANGES

REV: 1

SCALE: AS SHOWN

ISSUE DATE: FEB. 2022

DESIGNED BY: A. BENHUMEA

DRAWN BY: T. FAULKNER

PROJECT MANAGER: T. FAULKNER

FA PROJECT NO: 200395

STATE OF NEW YORK LICENSED PROFESSIONAL ENGINEER 07180

FISHER ASSOCIATES

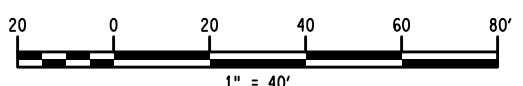
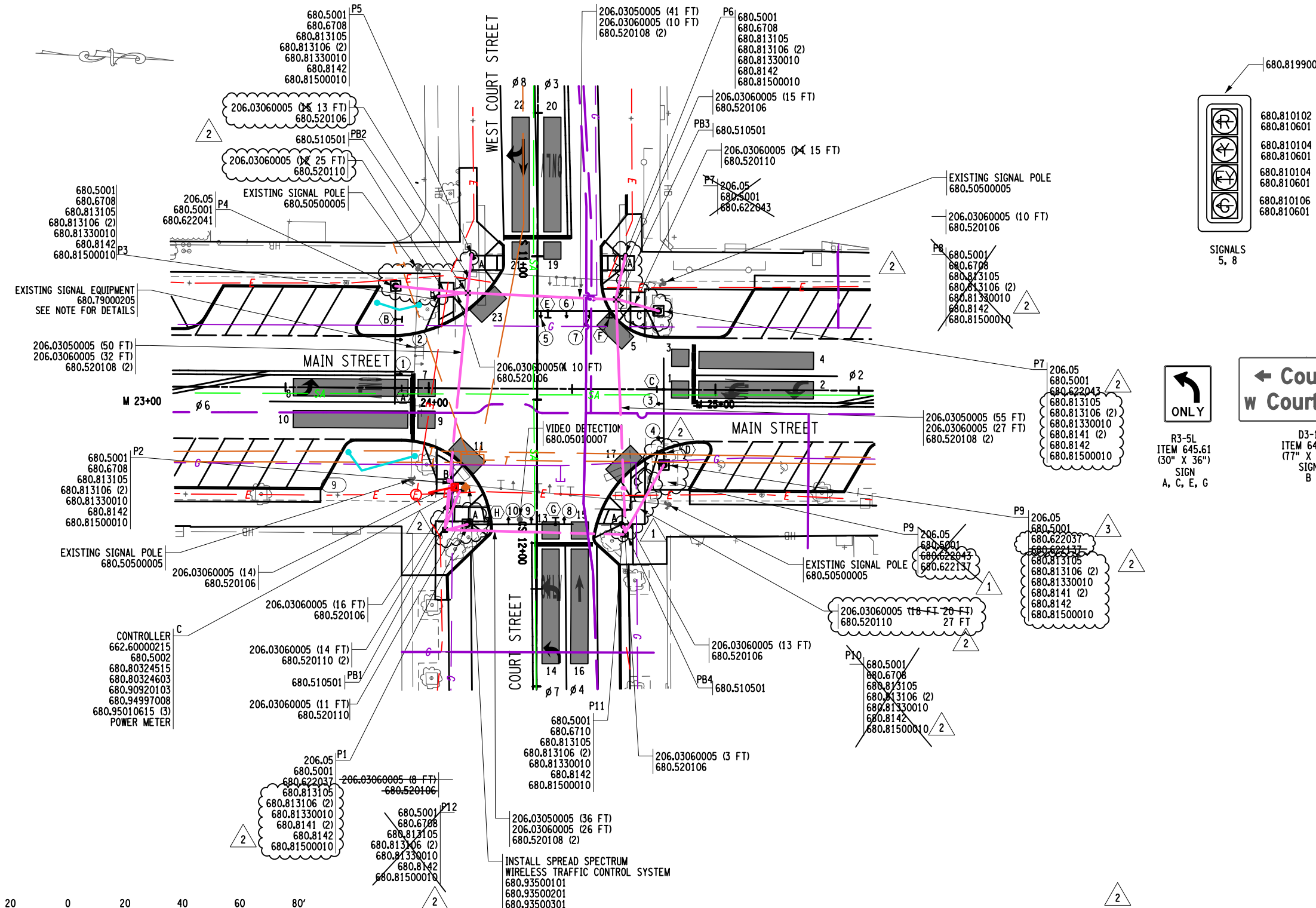
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DRAWING NO: TSP-03

SHEET 88 F2 OF 171

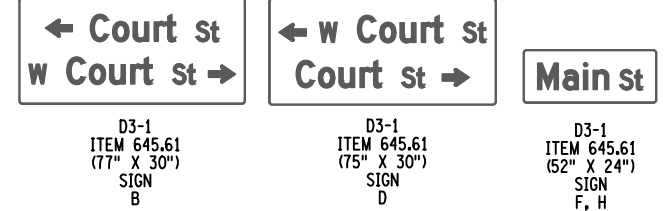
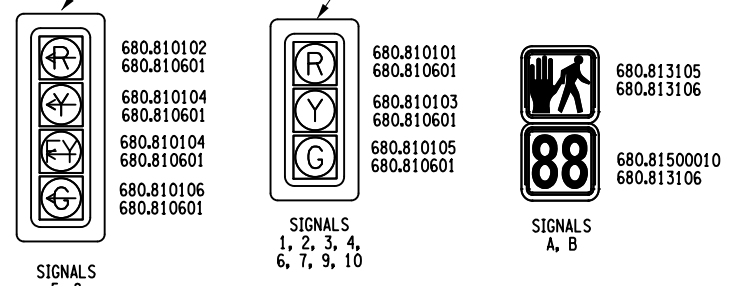
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FIELD CHANGE SHEET  
THIS SHEET SUPERSEDES SHEET 89F2



- NOTE:**
1. THE GENERAL NETWORK SECONDARY WILL BE THE SOURCE FOR POWER
  2. CROSSWALK STRIPING TURNED OFF TO IMPROVE PLAN CLARITY.
  3. ITEM 680.8442 ON POLES P1, P7 & P9 IS TO BE USED TO COVER THE INSTALLATION OF PUSH BUTTON EXTENDERS FOR THE PURPOSES OF ADA COMPLIANCE. SEE NYSDOT STANDARD SHEET 680-10, "PEDESTRIAN PUSH BUTTON EXTENSION DETAIL".

**SIGNAL HEAD DETAILS**  
(NOT TO SCALE)



**SIGN DETAILS**  
(NOT TO SCALE)

POLE TABLE												
POLE NUMBER	P1	P2	P3	P4	P5	P6	P7	<del>P8</del>	P9	<del>P10</del>	P11	<del>P12</del>
LOCATION (COORDINATES)	N: 947276.842 E: 928746.747	N: 947270.643 E: 928732.441	N: 947262.531 E: 928667.898	N: 947247.406 E: 928665.083	N: 947273.320 E: 928652.708	N: 947326.981 E: 928650.081	N: 947339.506 E: 928668.845	<del>N: 947334.903 E: 928667.453</del>	N: 947344.224 E: 928722.399	<del>N: 947331.183 E: 928744.536</del>	N: 947331.183 E: 928743.996	<del>N: 947276.843 E: 928745.967</del>
POLE HEIGHT (FT)	20	8	8	20	8	8	20	<del>8</del>	<del>20</del> 20 3	<del>8</del>	8	<del>8</del>
FOUNDATION CODE	L-9	J-1	J-1	L-11	J-1	J-1	L-10	<del>J-1</del>	L-11	<del>J-1</del>	J-1	<del>J-1</del>

REV	DATE	DESCRIPTION
7		
6		
5		
4	4/12/24	POLE HEIGHTS
3	7/25/23	AB
2	12/14/22	AB
1		P9 & P10 RELOCATED

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EA PROJECT NO. 200395  
PROJECT MANAGER T. FAULKNER  
DRAWN BY A. BENHUMEA  
SCALE AS SHOWN  
ISSUE DATE FEB. 2022

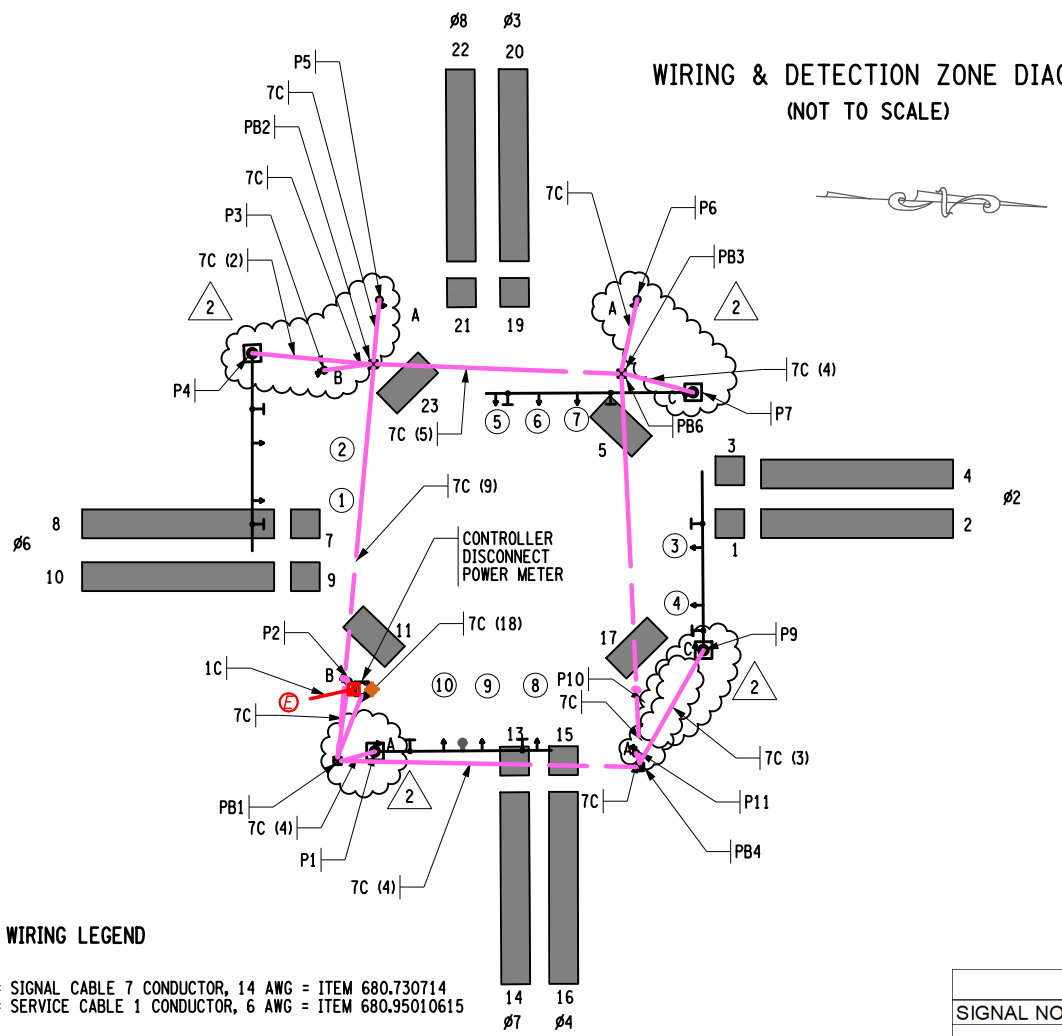


PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK  
TITLE OF DRAWING: TRAFFIC SIGNAL PLAN  
MAIN STREET & COURT STREET & WEST COURT STREET

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 4/15/2024  
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FIELD CHANGE SHEET  
THIS SHEET SUPERCEDES SHEET 90FC1

WIRING & DETECTION ZONE DIAGRAM  
(NOT TO SCALE)



WIRING LEGEND

7C = SIGNAL CABLE 7 CONDUCTOR, 14 AWG = ITEM 680.730714  
1C = SERVICE CABLE 1 CONDUCTOR, 6 AWG = ITEM 680.95010615

SIGNAL OPERATIONS SPECIFICATIONS  
VIDEO DETECTION TABLE (SDLC CHANNELS 33-64)

FUNCTION	DETECTION ZONE NO.	SDLC CHANNEL	SIZE	REMARKS
Ø 2	1	33	6' X 6'	MAIN ST. SB LEFT COUNT
Ø 2	2	34	6' X 40'	MAIN ST. SB LEFT
Ø 2	3	35	6' X 6'	MAIN ST. SB THRU/RIGHT COUNT
Ø 2	4	36	6' X 40'	MAIN ST. SB THRU/RIGHT
Ø 2	5	37	6' X 12'	MAIN ST. SB RADIUS
Ø 6	7	39	6' X 6'	MAIN ST. NB LEFT COUNT
Ø 6	8	40	6' X 40'	MAIN ST. NB LEFT
Ø 6	9	41	6' X 6'	MAIN ST. NB RIGHT/THRU COUNT
Ø 6	10	42	6' X 40'	MAIN ST. NB RIGHT/THRU
Ø 6	11	43	6' X 12'	MAIN ST. NB RADIUS
Ø 7	13	45	6' X 6'	COURT ST. WB LEFT COUNT
Ø 7	14	46	6' X 40'	COURT ST. WB LEFT
Ø 4	15	47	6' X 6'	COURT ST. WB THRU/RIGHT COUNT
Ø 4	16	48	6' X 40'	COURT ST. WB THRU/RIGHT
Ø 4	17	49	6' X 12'	COURT ST. WB RADIUS
Ø 3	19	51	6' X 6'	WEST COURT ST. EB LEFT COUNT
Ø 3	20	52	6' X 40'	WEST COURT ST. EB LEFT
Ø 8	21	53	6' X 6'	WEST COURT ST. EB THRU/RIGHT COUNT
Ø 8	22	54	6' X 40'	WEST COURT ST. EB THRU/RIGHT
Ø 8	23	55	6' X 12'	WEST COURT ST. EB RADIUS

TABLE OF INPUT WIRING

SIGNAL NO. X	DETECTOR NUMBER	TYPE	BOARD WIRING	REMARKS
PED A (2/6)	A1 - A2	PED BUTTON	1A, 1B	CROSSING COURT ST/ WEST COURT ST.
PED B (8)	B1 - B2	PED BUTTON	2A, 2B	CROSSING MAIN ST (SOUTHSIDE)
PED C (4)	C1 - C2	PED BUTTON	3A, 3B	CROSSING MAIN ST (NORTHSIDE)

LEGEND

- G = CIRCULAR GREEN
- ←G = LEFT GREEN ARROW
- G = RIGHT GREEN ARROW
- ↑G = VERTICAL GREEN ARROW
- Y = CIRCULAR YELLOW
- ←Y = LEFT YELLOW ARROW
- Y = RIGHT YELLOW ARROW
- ←FY = FLASHING LEFT YELLOW ARROW
- R = CIRCULAR RED
- ←R = LEFT RED ARROW
- R = RIGHT RED ARROW
- FR = FLASHING RED

TABLE OF CLEARANCES

TO	FROM			
	G	R	←G	←FY
G	X	R		
R	Y	X		
←G			X	
←FY				X

SIGNAL OPERATIONS SPECIFICATIONS  
TABLE OF SWITCHPACKS

SWITCH PACK	FUNCTION	FACE NO.'S	FLASH PLUG	INDICATIONS	TERMINAL	WIRING COLORING CODE
SP 1					SP 1R SP 1Y SP 1G	
SP 2	Ø 2	1, 2	R		SP 2R SP 2Y SP 2G	14/7C - 1 - R 14/7C - 1 - O 14/7C - 1 - G
SP 3	OVL A (Ø 3)	8	W		SP 3R SP 3Y SP 3G	14/7C - 2 - B 14/7C - 2 - W/B
SP 4	Ø 4	6, 7	R		SP 4R SP 4Y SP 4G	14/7C - 3 - R 14/7C - 3 - O 14/7C - 3 - G
SP 5					SP 5R SP 5Y SP 5G	
SP 6	Ø 6	3, 4	R		SP 6R SP 6Y SP 6G	14/7C - 4 - R 14/7C - 4 - O 14/7C - 4 - G
SP 7	OVL C (Ø 7)	5	W		SP 7R SP 7Y SP 7G	14/7C - 5 - B 14/7C - 5 - W/B
SP 8	Ø 8	9, 10	R		SP 8R SP 8Y SP 8G	14/7C - 6 - R 14/7C - 6 - O 14/7C - 6 - G
SP 9	Ø 3	8	R		SP 9R SP 9Y SP 9G	14/7C - 2 - R 14/7C - 2 - O 14/7C - 2 - W
SP 10	Ø 7	5	R		SP 10R SP 10Y SP 10G	14/7C - 5 - R 14/7C - 5 - O 14/7C - 5 - G
SP 11					SP 11R SP 11Y SP 11G	
SP 12					SP 12R SP 12Y SP 12G	
SP 13					SP 13R SP 13Y SP 13G	
SP 14	PED A (Ø 2 & Ø 6)	A1 A2	W		SP 14R SP 14Y SP 14G	14/7C - 6 - R 14/7C - 6 - O 14/7C - 6 - G
SP 15	PED B (Ø 8)	B1 B2	W		SP 15R SP 15Y SP 15G	14/7C - 8 - R 14/7C - 8 - O 14/7C - 8 - G
SP 16	PED C (Ø 4)	C1 C2	W		SP 16R SP 16Y SP 16G	14/7C - 10 - R 14/7C - 10 - O 14/7C - 10 - G

COLOR: R-RED, O-ORANGE, G-GREEN, BL-BLUE, W-WHITE, B-BLACK  
KEY FOR WIRE COLOR CODE

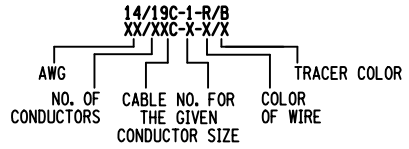
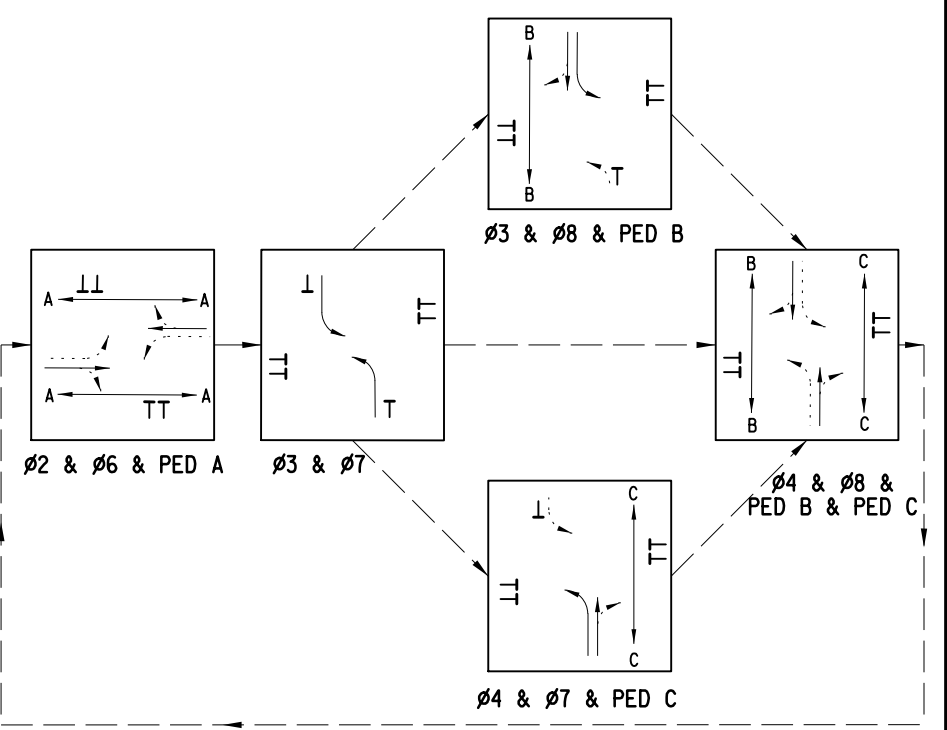


TABLE OF OPERATIONS

FACE	Ø 2 & Ø 6	Ø 3 & Ø 7	Ø 3 & Ø 8	Ø 4 & Ø 7	Ø 4 & Ø 8	EMERGENCY FLASH
1	G	R	R	R	R	FY
2	G	R	R	R	R	FY
3	G	R	R	R	R	FY
4	G	R	R	R	R	FY
5	←R	←G	←FY	←G	←FY	←FR
6	R	R	R	G	G	FR
7	R	R	R	G	G	FR
8	←R	←G	←FY	←FY	←FY	←FR
9	R	R	R	R	R	FR
10	R	R	R	R	R	FR
PED A	HAND	HAND	HAND	HAND	HAND	DARK
PED B	HAND	HAND	HAND	HAND	HAND	DARK
PED C	HAND	HAND	HAND	HAND	HAND	DARK

UPON ACTUATION OF A PEDESTRIAN PUSH BUTTON, A "WALKING MAN" INDICATION FOLLOWED BY A FLASHING "HAND" INDICATION FOLLOWED BY A STEADY "HAND" WILL BE DISPLAYED, AND COUNTDOWN TIMER IS INITIATED.

PREFERENTIAL PHASING SEQUENCE



200395\_sph\_ssp\_Loc2-2FC-2.dgn  
27-JUL-2023 08:23 \*TIME\*  
ABenhumeo

PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK

TITLE OF DRAWING: TRAFFIC SIGNAL PLAN - WIRING DIAGRAM & TABLES  
MAIN STREET & COURT STREET & WEST COURT STREET

DRAWING NO. TSP-05

SHEET 90F2 OF 171

DATE: 7/25/23  
REV: 1  
DESCRIPTION: P9 & P10 RELOCATED

ISSUE DATE: FEB. 2022  
SCALE: NO SCALE

DESIGNED BY: A. BENUHMEA  
CHECKED BY: T. FAULKNER  
PROJECT MANAGER: T. FAULKNER

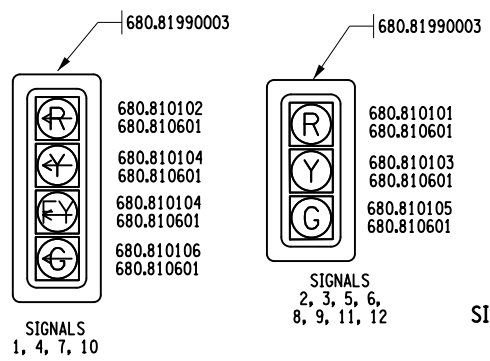
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STATE OF NEW YORK  
LAWRENCE T. FAULKNER  
LICENSED PROFESSIONAL ENGINEER  
07188

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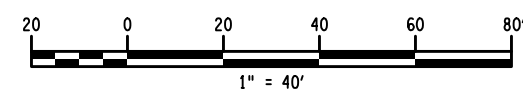
FIELD CHANGE SHEET  
THIS SHEET SUPERSEDES SHEET 92F1



SIGNAL HEAD DETAILS  
(NOT TO SCALE)

SOLAR POWERED BI-DIRECTIONAL RRFB  
680.82254310  
STA: 29.67.18  
OFFSET: LT 23.04 FT  
SEE NYSDOT STANDARD SHEET 680-10 FOR DETAIL

SOLAR POWERED BI-DIRECTIONAL RRFB  
680.82254310  
STA: 29+73.44  
OFFSET: RT 23.21 FT  
SEE NYSDOT STANDARD SHEET 680-10 FOR DETAIL

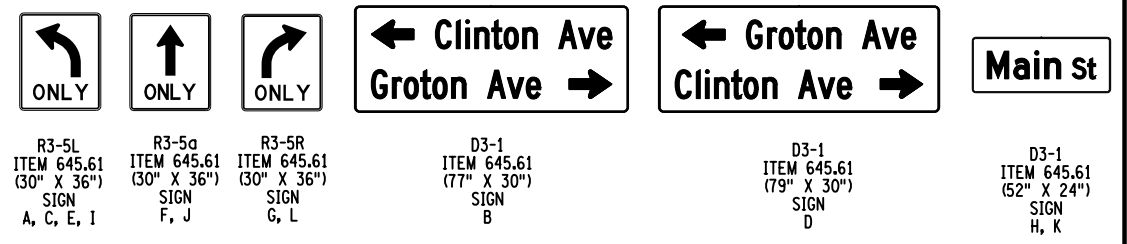


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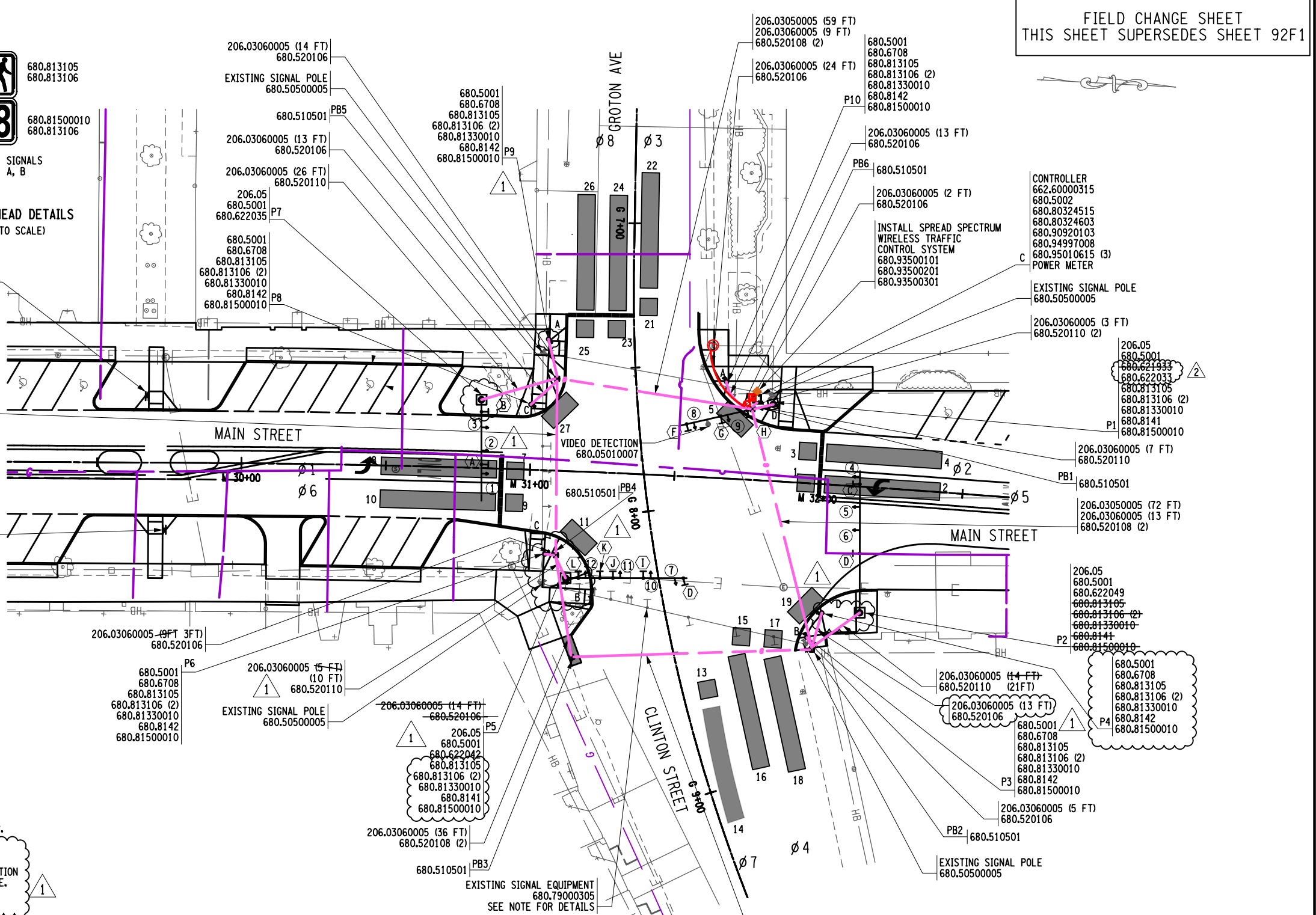
1. THE GENERAL NETWORK SECONDARY WILL BE THE SOURCE FOR POWER.
2. CROSSWALK STRIPING TURNED OFF TO IMPROVE PLAN CLARITY.
3. ITEM 680.8141 ON POLE 5 IS TO BE USED TO COVER THE INSTALLATION OF PUSH BUTTON EXTENDERS FOR THE PURPOSES OF ADA COMPLIANCE. SEE NYSDOT STANDARD SHEET 680-10, "PEDESTRIAN PUS BUTTON EXTENSION DETAIL".

POLE TABLE

POLE NUMBER	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10
LOCATION (COORDINATES)	N: 948043.325 E: 928641.356	N: 948076.808 E: 928711.890	N: 948058.995 E: 928721.838	N: 948063.732 E: 928712.632	N: 947974.425 E: 928705.316	N: 947966.838 E: 928697.400	N: 947942.065 E: 928645.156	N: 947958.855 E: 928645.891	N: 947964.144 E: 928622.945	N: 948026.530 E: 928634.807
POLE HEIGHT (FT)	19-20	20	8	8	20	8	20	8	8	8
FOUNDATION CODE	L-7L-8	L-12	J-1	J-1	L-11	J-1	L-12	J-1	J-1	J-1



SIGN DETAILS  
(NOT TO SCALE)



STATE OF NEW YORK  
LICENSED PROFESSIONAL ENGINEER  
TIMOTHY H. FAULKNER  
077088

FISHER ASSOCIATES  
WWW.FISHERASSOC.COM

PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK

TITLE OF DRAWING: TRAFFIC SIGNAL PLAN  
MAIN STREET & GROTON AVENUE & CLINTON AVENUE

NO.	DATE	DESCRIPTION	BY
1	4/12/24	POLE RELOCATION	HL
2	7/25/23	AB	AB
3			
4			
5			
6			
7			

DATE: 4/12/24  
BY: HL

ISSUE DATE: FEB. 2022  
SCALE: AS SHOWN

DESK: A. BENHUMEA  
PROJECT MANAGER: T. FAULKNER  
F.A. PROJECT NO.: 200395

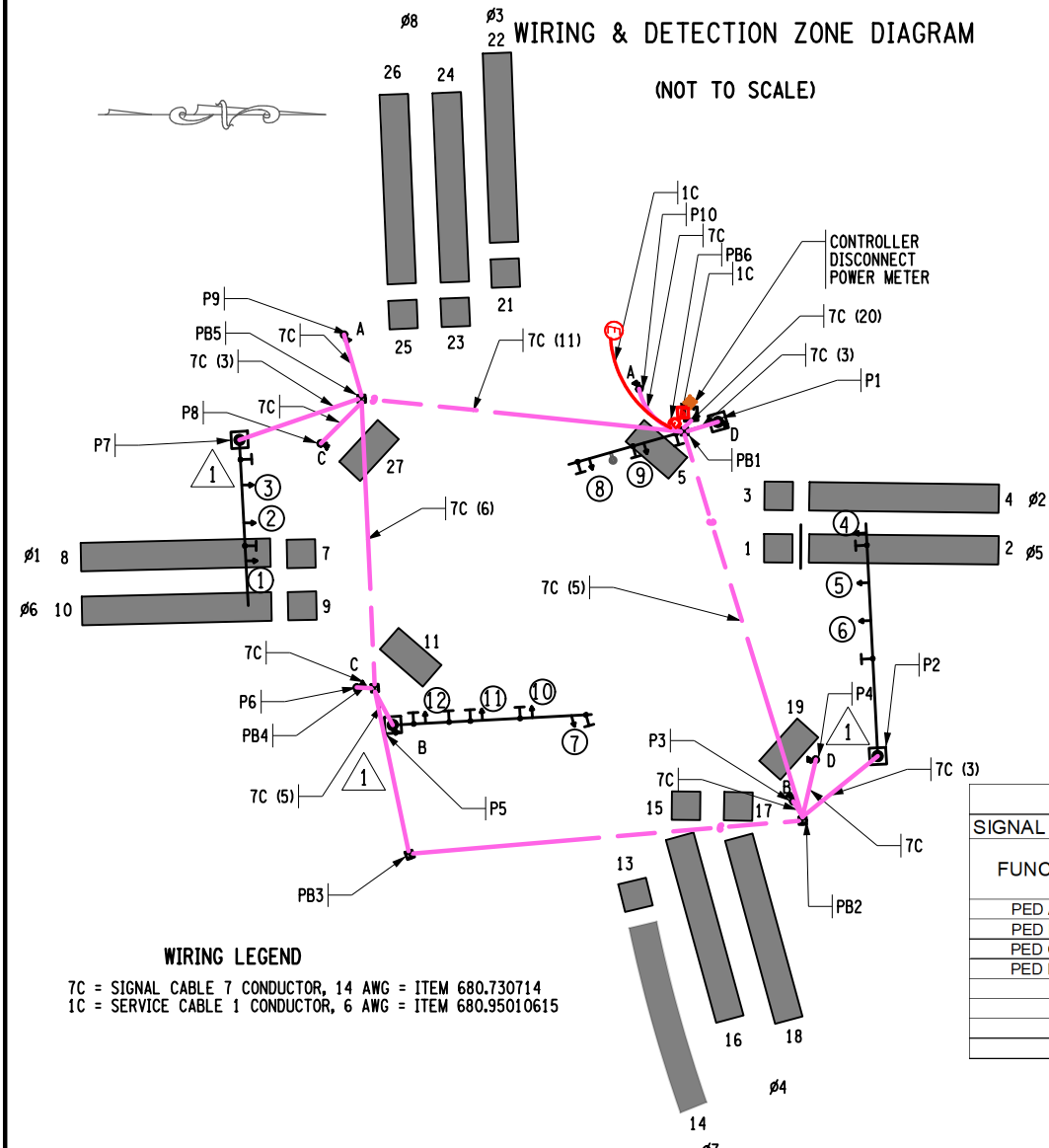
NEW YORK STATE EDUCATION LAW SECTION 1203(1) (b) (1) THIS DRAWING IS THE PROPERTY OF FISHER ASSOCIATES, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF FISHER ASSOCIATES, INC.

FIELD CHANGE SHEET  
THIS SHEET SUPERSEDES SHEET 92F1

TSP-07  
SHEET 92F2 OF 171

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WIRING & DETECTION ZONE DIAGRAM  
(NOT TO SCALE)



**WIRING LEGEND**  
7C = SIGNAL CABLE 7 CONDUCTOR, 14 AWG = ITEM 680.730714  
1C = SERVICE CABLE 1 CONDUCTOR, 6 AWG = ITEM 680.95010615

**SIGNAL OPERATIONS SPECIFICATIONS VIDEO DETECTION TABLE (SDLC CHANNELS 33-64)**

Signal No.	XX	FUNCTION	DETECTION ZONE NO.	SDLC CHANNEL	SIZE	REMARKS
Ø 5	1		1	33	6' X 6'	MAIN ST. SB LEFT COUNT
Ø 5	2		2	34	6' X 40'	MAIN ST. ST. SB LEFT
Ø 2	3		3	35	6' X 6'	MAIN ST. SB THRU/RIGHT COUNT
Ø 2	4		4	36	6' X 40'	MAIN ST. SB THRU/RIGHT
Ø 2	5		5	37	6' X 12'	MAIN ST. SB RADIUS
				38		
Ø 1	7		7	39	6' X 6'	MAIN ST. NB LEFT COUNT
Ø 1	8		8	40	6' X 40'	MAIN ST. NB LEFT
Ø 6	9		9	41	6' X 6'	MAIN ST. NB THRU/RIGHT COUNT
Ø 6	10		10	42	6' X 40'	MAIN ST. NB THRU/RIGHT
Ø 6	11		11	43	6' X 12'	MAIN ST. NB RADIUS
				44		
Ø 7	13		13	45	6' X 6'	CLINTON ST. WB LEFT COUNT
Ø 7	14		14	46	6' X 40'	CLINTON ST. WB LEFT
Ø 4	15		15	47	6' X 6'	CLINTON ST. WB THRU COUNT
Ø 4	16		16	48	6' X 40'	CLINTON ST. WB THRU
Ø 4	17		17	49	6' X 6'	CLINTON ST. WB RIGHT COUNT
Ø 4	18		18	50	6' X 40'	CLINTON ST. WB RIGHT
Ø 4	19		19	51	6' X 12'	CLINTON ST. WB RADIUS
				52		
Ø 3	21		21	53	6' X 6'	GROTON AVE. EB LEFT COUNT
Ø 3	22		22	54	6' X 40'	GROTON AVE. EB LEFT
Ø 8	23		23	55	6' X 6'	GROTON AVE. EB THRU COUNT
Ø 8	24		24	56	6' X 40'	GROTON AVE. EB THRU
Ø 8	25		25	57	6' X 6'	GROTON AVE. EB RIGHT COUNT
Ø 8	26		26	58	6' X 40'	GROTON AVE. EB RIGHT
Ø 8	27		27	59	6' X 12'	GROTON AVE. EB. RADIUS
				60		
				61		
				62		
				63		
				64		

**TABLE OF INPUT WIRING**

SIGNAL NO. X	MAIN ST. AT CLINTON ST. / GROTON AVE.	COUNTY: CORTLAND		
FUNCTION	DETECTOR NUMBER	TYPE	BOARD WIRING	REMARKS
PED A (2)	A1 - A2	PED BUTTON	1A, 1B	CROSSING GROTON ST.
PED B (6)	B1 - B2	PED BUTTON	2A, 2B	CROSSING CLINTON ST.
PED C (8)	C1 - C2	PED BUTTON	3A, 3B	CROSSING MAIN ST (SOUTH SIDE)
PED D (4)	D1 - D2	PED BUTTON	4A, 4B	CROSSING MAIN ST (NORTH SIDE)
			5A, 5B	
			6A, 6B	
			7A, 7B	
			8A, 8B	

**LEGEND**  
G = CIRCULAR GREEN  
-G = LEFT GREEN ARROW  
-R = RIGHT GREEN ARROW  
G = VERTICAL GREEN ARROW  
Y = CIRCULAR YELLOW  
-Y = LEFT YELLOW ARROW  
-R = RIGHT YELLOW ARROW  
-FY = FLASHING LEFT YELLOW ARROW  
R = CIRCULAR RED  
-R = LEFT RED ARROW  
-R = RIGHT RED ARROW  
FR = FLASHING RED

**TABLE OF OPERATIONS**

FACE	PHASE												PED A	PED B	PED C	PED D
	1	2	3	4	5	6	7	8	9	10	11	12				
Ø 1 & Ø 5	-G	R	R	-G	R	R	-R	R	R	-R	R	R	A-A	B-B	C-C	D-D
Ø 1 & Ø 6	-FY	R	R	-G	G	G	-R	R	R	-R	R	R	HAND	HAND	HAND	HAND
Ø 2 & Ø 5	-G	G	G	-FY	R	R	-R	R	R	-R	R	R	HAND	HAND	HAND	HAND
Ø 2 & Ø 6	-FY	G	G	-FY	G	G	-R	R	R	-R	R	R	HAND	HAND	HAND	HAND
Ø 3 & Ø 7	-R	R	R	-R	R	R	-G	R	R	-G	R	R	HAND	HAND	HAND	HAND
Ø 3 & Ø 8	-R	R	R	-R	R	R	-FY	R	R	-G	G	G	HAND	HAND	HAND	HAND
Ø 4 & Ø 7	-R	R	R	-R	R	R	-G	G	G	-FY	R	R	HAND	HAND	HAND	HAND
Ø 4 & Ø 8	-R	R	R	-R	R	R	-FY	R	R	-FY	G	G	HAND	HAND	HAND	HAND
EMERGENCY FLASH	-FY	FY	FY	-FY	FY	FY	-FR	FR	FR	-FR	FR	FR	DARK	DARK	DARK	DARK

UPON ACTUATION OF A PEDESTRIAN PUSH BUTTON, A "WALKING MAN" INDICATION FOLLOWED BY A FLASHING "HAND" INDICATION FOLLOWED BY A STEADY "HAND" WILL BE DISPLAYED, AND COUNTDOWN TIMER IS INITIATED.

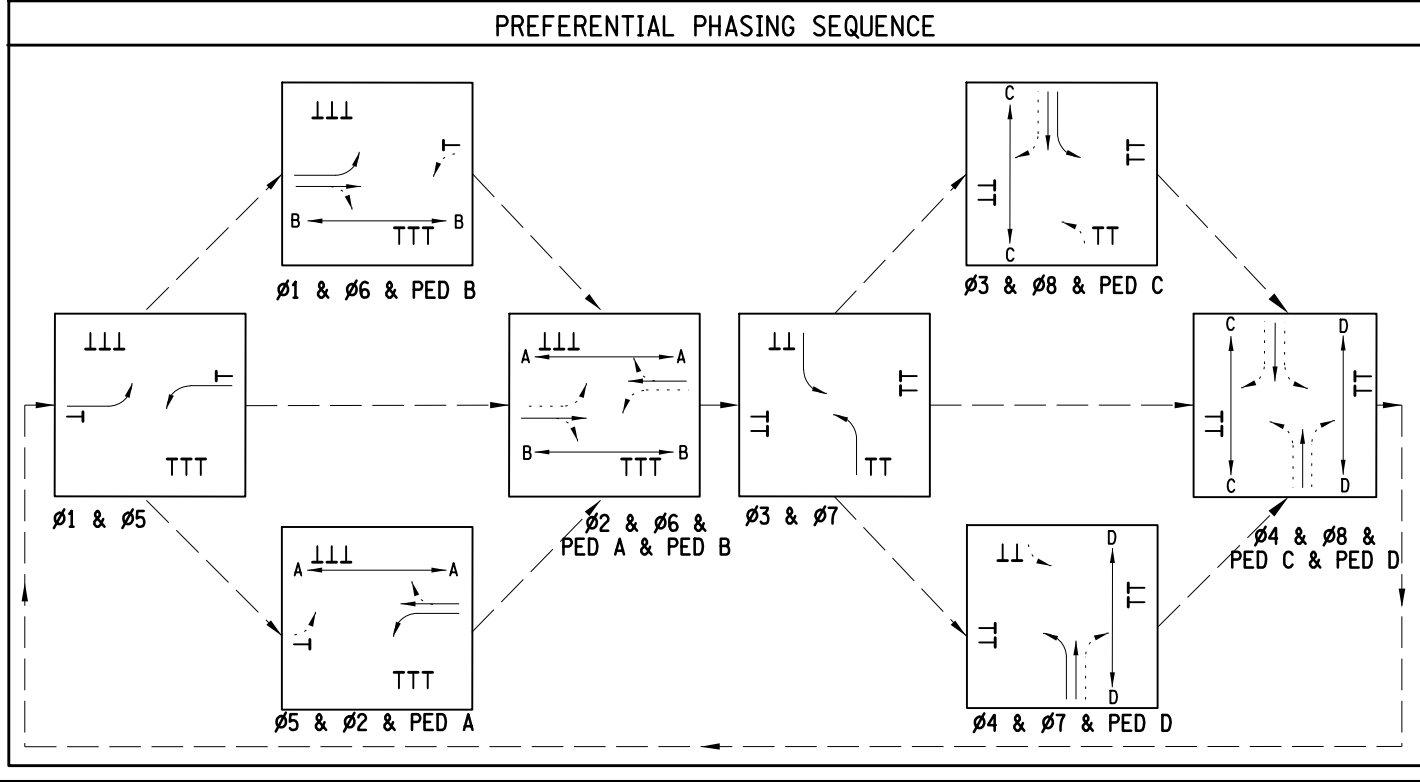
**SIGNAL OPERATIONS SPECIFICATIONS TABLE OF SWITCHPACKS**

SWITCH PACK	FUNCTION	FACE NO.'S	FLASH PLUG	INDICATIONS	TERMINAL WIRING BOARD	
					TERMINAL	WIRING COLORING CODE
SP 1	OVL A (Ø 1)	4	W	-G	SP 1R SP 1Y SP 1G	14/7C - 1 - B 14/7C - 1 - WB
SP 2	Ø 2	2, 3	R	R Y G	SP 2R SP 2Y SP 2G	14/7C - 2 - R 14/7C - 2 - O 14/7C - 2 - G
SP 3	OVL C (Ø 3)	10	W	-G	SP 3R SP 3Y	14/7C - 3 - B 14/7C - 3 - WB
SP 4	Ø 4	8, 9	R	R Y G	SP 4R SP 4Y SP 4G	14/7C - 4 - R 14/7C - 4 - O 14/7C - 4 - G
SP 5	OVL B (Ø 5)	1	W	-G	SP 5R SP 5Y	14/7C - 5 - B 14/7C - 5 - WB
SP 6	Ø 6	5, 6	R	R Y G	SP 6R SP 6Y SP 6G	14/7C - 6 - R 14/7C - 6 - O 14/7C - 6 - G
SP 7	OVL D (Ø 7)	7	W	-G	SP 7R SP 7Y	14/7C - 7 - B 14/7C - 7 - WB
SP 8	Ø 8	11, 12	R	R Y G	SP 8R SP 8Y SP 8G	14/7C - 8 - R 14/7C - 8 - O 14/7C - 8 - G
SP 9	Ø 1	4	R	-R -Y -G	SP 9R SP 9Y SP 9G	14/7C - 1 - R 14/7C - 1 - O 14/7C - 1 - G
SP 10	Ø 3	10	R	-R -Y -G	SP 10R SP 10Y SP 10G	14/7C - 3 - R 14/7C - 3 - O 14/7C - 3 - G
SP 11	Ø 5	1	R	-R -Y -G	SP 11R SP 11Y SP 11G	14/7C - 5 - R 14/7C - 5 - O 14/7C - 5 - G
SP 12	Ø 7	7	R	-R -Y -G	SP 12R SP 12Y SP 12G	14/7C - 7 - R 14/7C - 7 - O 14/7C - 7 - G
SP 13	PED A (Ø 2)	A1 A2	W	HAND	SP 13R SP 13Y SP 13G	14/7C - 8 - R 14/7C - 8 - O 14/7C - 8 - G
SP 14	PED B (Ø 6)	B1 B2	W	HAND	SP 14R SP 14Y SP 14G	14/7C - 10 - R 14/7C - 10 - O 14/7C - 10 - G
SP 15	PED C (Ø 8)	C1 C2	W	HAND	SP 15R SP 15Y SP 15G	14/7C - 12 - R 14/7C - 12 - O 14/7C - 12 - G
SP 16	PED D (Ø 4)	D1 D2	W	HAND	SP 16R SP 16Y SP 16G	14/7C - 14 - R 14/7C - 14 - O 14/7C - 14 - G

**TABLE OF CLEARANCES**

TO	FROM			
	G	R	-G	-FY
G	X	X	X	X
R	X	X	X	X
-G	X	X	X	X
-FY	X	X	X	X
-R	X	X	X	X

COLOR: R-RED, O-ORANGE, G-GREEN, BL-BLUE, W-WHITE, B-BLACK  
KEY FOR WIRE COLOR CODE  
AWG NO. OF CONDUCTORS CABLE NO. FOR THE GIVEN CONDUCTOR SIZE TRACER COLOR



**FISHER ASSOCIATES**  
200395  
PROJECT MANAGER: T. FAULKNER  
DRAWN BY: A. BENHUMEA  
ISSUE DATE: FEB. 2022  
SCALE: NO SCALE

STATE OF NEW YORK  
LICENSED PROFESSIONAL ENGINEER  
027088

PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK

TITLE OF DRAWING: TRAFFIC SIGNAL PLAN - WIRING DIAGRAM & TABLES  
MAIN STREET & GROTON AVENUE & CLINTON STREET

DRAWING NO.: **TSP-08**

DATE: 7/25/23  
BY: AB  
DESCRIPTION: WIRING DIAGRAM UPDATED

SHEET 93FC1 OF 171

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27-JUL-2023 08:23 \*TIME\*  
ABenhumea

FIELD CHANGE SHEET  
THIS SHEET SUPERSEDES SHEET 94F1

7	6	5	4	3	2	1
HL	AB	DATE	DESCRIPTION	REV	DATE	BY
		4/12/24			7/25/23	AB
						BY

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 engineer or land surveyor, or to  
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 land surveyor, or to use the title of a  
 professional engineer or land surveyor,  
 without the approval of the State  
 Education Department, is a violation  
 of the Education Law.

EA PROJECT NO.  
 200395  
 PROJECT MANAGER  
 T. FAULKNER  
 DRAWN BY  
 A. BENHUMEA  
 SCALE  
 AS SHOWN  
 ISSUE DATE  
 FEB. 2022

STATE OF NEW YORK  
 LICENSED PROFESSIONAL ENGINEER  
 T. FAULKNER  
 071088

**FISHER ASSOCIATES**  
 WWW.FISHERASSOC.COM

PROJECT  
 MAIN STREET UTILITY  
 IMPROVEMENT PROJECT  
 CITY OF CORTLAND  
 CORTLAND COUNTY, NEW YORK

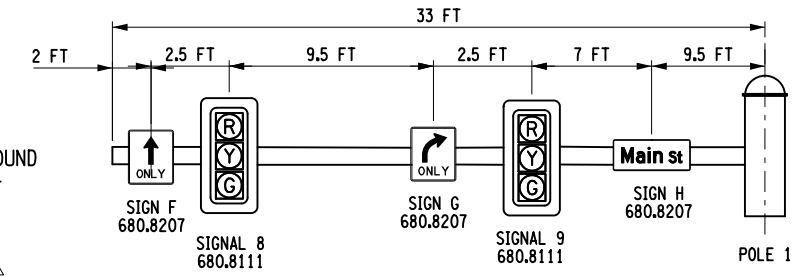
TITLE OF DRAWING  
 TRAFFIC SIGNAL PLANS  
 MAIN STREET & GROTON AVENUE & CLINTON STREET

DRAWING NO.  
**TSP-09**  
 SHEET 94F2 OF 171

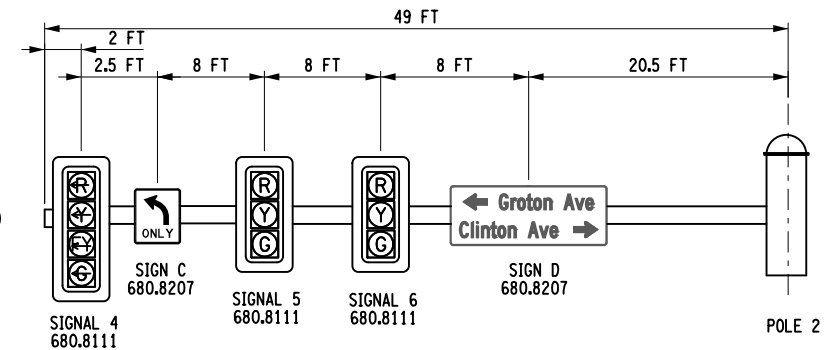
QUANTITY AND ITEM LIST  
MAIN STREET & GROTON AVENUE & CLINTON AVENUE

ITEM NO.	DESCRIPTION	UNT	QTY
206.03050005	CONDUIT EXCAVATION AND BACKFILL (IN EXISTING ROADWAY)	LF	265
206.03060005	CONDUIT EXCAVATION AND BACKFILL (NOT IN ROADWAY)	LF	245
206.05	TEST PIT EXCAVATION	EACH	4
619.1611	MAINTAIN TRAFFIC SIGNAL EQUIPMENT (REQUIREMENT A)	INTM	18
645.61	OVERHEAD SIGN PANELS	SF	109.7
662.60000315	FURNISHING ELECTRICAL SERVICE	LS	1
680.05010007	360 DEGREE CAMERA VIDEO DETECTION SYSTEM	EACH	1
680.5001	POLE EXCAVATION AND CONCRETE FOUNDATION	CY	21.3
680.5002	CONCRETE BASE FOR CONTROLLER CABINET	EACH	1
680.50500005	REMOVE POLE FOUNDATIONS	LF	40
680.510501	PULLBOX-RECTANGULAR, 26 X 18 INCH, REINFORCED CONCRETE	EACH	6
680.520106	CONDUIT, METAL STEEL, ZINC COATED, 2"	LF	100
680.520108	CONDUIT, METAL STEEL, ZINC COATED, 3"	LF	695
680.520110	CONDUIT, METAL STEEL, ZINC COATED, 4"	LF	65
680.621933	TRAFFIC SIGNAL POLE, MAST ARM, 19 FEET MOUNTING HEIGHT, 33 FEET ARM LENGTH	EACH	1
680.622033	TRAFFIC SIGNAL POLE, MAST ARM, 20 FEET MOUNTING HEIGHT, 33 FEET ARM LENGTH	EACH	1
680.622035	TRAFFIC SIGNAL POLE, MAST ARM, 20 FEET MOUNTING HEIGHT, 35 FEET ARM LENGTH	EACH	1
680.622042	TRAFFIC SIGNAL POLE, MAST ARM, 20 FEET MOUNTING HEIGHT, 42 FEET ARM LENGTH	EACH	1
680.622049	TRAFFIC SIGNAL POLE, MAST ARM, 20 FEET MOUNTING HEIGHT, 49 FEET ARM LENGTH	EACH	1
680.622037	TRAFFIC SIGNAL POLE, MAST ARM, 20 FEET MOUNTING HEIGHT, 37 FEET ARM LENGTH	EACH	1
680.622041	TRAFFIC SIGNAL POLE, MAST ARM, 20 FEET MOUNTING HEIGHT, 41 FEET ARM LENGTH	EACH	1
680.622043	TRAFFIC SIGNAL POLE, MAST ARM, 20 FEET MOUNTING HEIGHT, 43 FEET ARM LENGTH	EACH	2
680.6708	TRAFFIC SIGNAL POLE-POST TOP MOUNT 8 FEET MOUNTING HEIGHT	EACH	6
680.730714	SIGNAL CABLE 7 CONDUCTORS, 14 AWG	LF	3,550
680.79000305	REMOVE TRAFFIC SIGNAL INSTALLATION (LOCATION 3)	ELOC	1
680.80324515	INSTALL MICROCOMPUTER CABINET	EACH	1
680.80324603	MICROCOMPUTER TRAFFIC SIGNAL CABINET BASE	EACH	1
680.810101	TRAFFIC SIGNAL MODULE - 12 INCH, RED BALL, LED	EACH	8
680.810102	TRAFFIC SIGNAL MODULE - 12 INCH, RED ARROW, LED	EACH	4
680.810103	TRAFFIC SIGNAL MODULE - 12 INCH, YELLOW BALL, LED	EACH	8
680.810104	TRAFFIC SIGNAL MODULE - 12 INCH, YELLOW ARROW, LED	EACH	8
680.810105	TRAFFIC SIGNAL MODULE - 12 INCH, GREEN BALL, LED	EACH	8
680.810106	TRAFFIC SIGNAL MODULE - 12 INCH GREEN ARROW, LED	EACH	4
680.810601	TRAFFIC SIGNAL SECTION - POLYCARBONATE, TYPE I, 12 INCH	EACH	40
680.8111	TRAFFIC SIGNAL BRACKET ASSEMBLY - 1 WAY	EACH	12
680.813105	PEDESTRIAN SIGNAL MODULE - 12 INCH BI-MODAL, HAND/MAN SYMBOLS LED	EACH	8
680.813106	PEDESTRIAN SIGNAL SECTION - POLYCARBONATE, TYPE I, 12 INCH	EACH	16
680.81330010	AUDIBLE PEDESTRIAN SIGNAL	EACH	8
680.8141	PEDESTRIAN SIGNAL BRACKET MOUNT ASSEMBLY	EACH	2
680.8142	PEDESTRIAN SIGNAL POST TOP MOUNT ASSEMBLY	EACH	6
680.81500010	PEDESTRIAN COUNT-DOWN TIMER MODULE	EACH	8
680.81990003	TRAFFIC SIGNAL BACKPLATES WITH YELLOW REFLECTIVE TAPE	EACH	12
680.8207	OVERHEAD SIGN ASSEMBLY, TYPE G	EACH	12
680.82254310	RECTANGULAR RAPID FLASHING BEACON (RRFB) ASSEMBLY - FOUR BEACONS, SOLAR POWERED	EACH	2
680.90920103	ELECTRIC METER CHANNEL, 100 AMPERE, SINGLE PHASE, 240 VOLTS FOR TRAFFIC	EACH	1
680.93500101	SPREAD SPECTRUM WIRELESS TRAFFIC CONTROL	EACH	1
680.93500201	DIRECTIONAL YAGI ANTENNA FOR SPREAD SPECTRUM WIRELESS TRAFFIC CONTROL	EACH	1
680.93500301	REMOTE ANTENNA CABLE FOR SPREAD SPECTRUM WIRELESS TRAFFIC CONTROL	LF	50
680.94997008	FURNISH AND INSTALL ELECTRICAL DISCONNECT GENERATOR TRANSFERSWITCH	EACH	1
680.95010615	SERVICE CABLE 1 CONDUCTOR, NO. 06 AWG	LF	50
680.95600004	ELECTRIC METER PAN	EACH	1

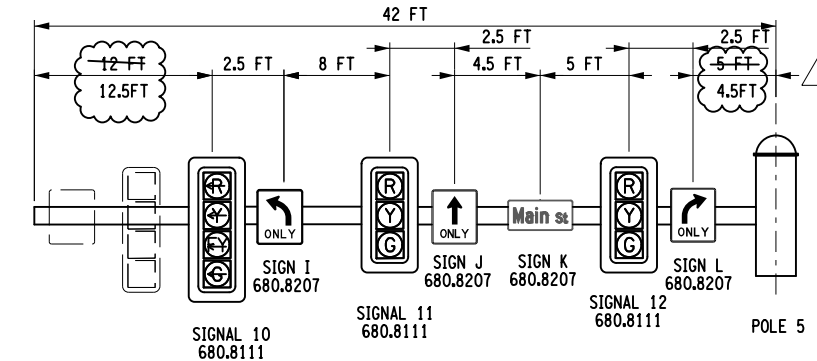
POLE 1 - CLINTON ST WESTBOUND  
MOUNTING HEIGHT 19 FT - 20 FT



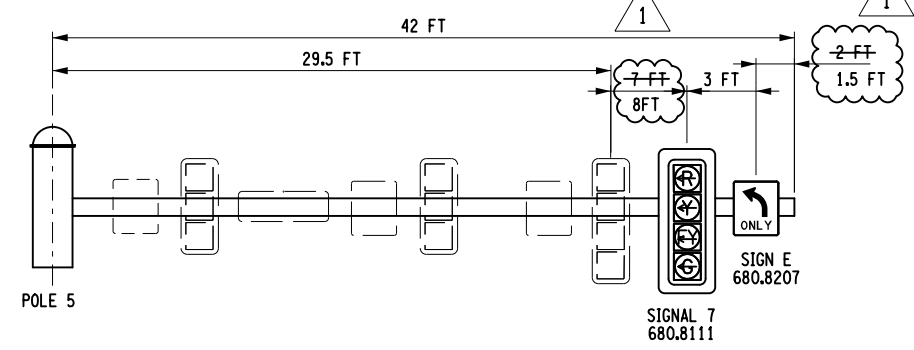
POLE 2 - MAIN ST NORTHBOUND  
MOUNTING HEIGHT 20 FT



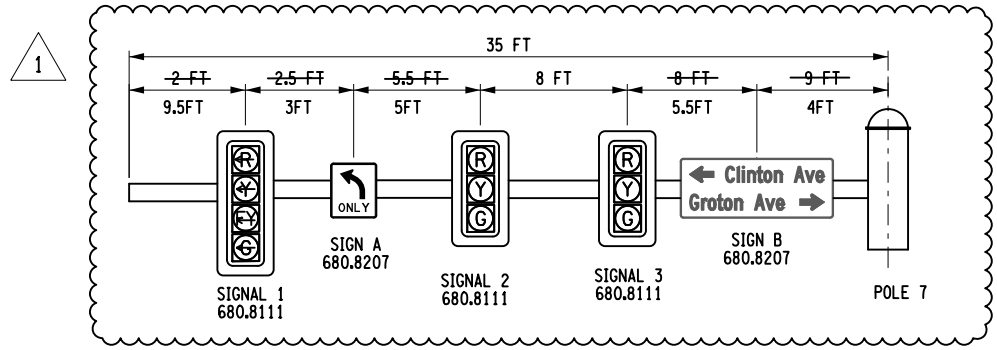
POLE 5 - EASTBOUND VIEW  
GROTON ST EASTBOUND  
MOUNTING HEIGHT 20 FT



POLE 5 - WESTBOUND VIEW  
CLINTON ST WESTBOUND  
MOUNTING HEIGHT 20 FT



POLE 7 - MAIN ST SOUTHBOUND  
MOUNTING HEIGHT 20 FT



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END MILL & OVERLAY  
MATCH EXISTING  
STA. T 5+00.00

BEGIN MILL & OVERLAY  
MATCH EXISTING  
STA. M 16+35.00

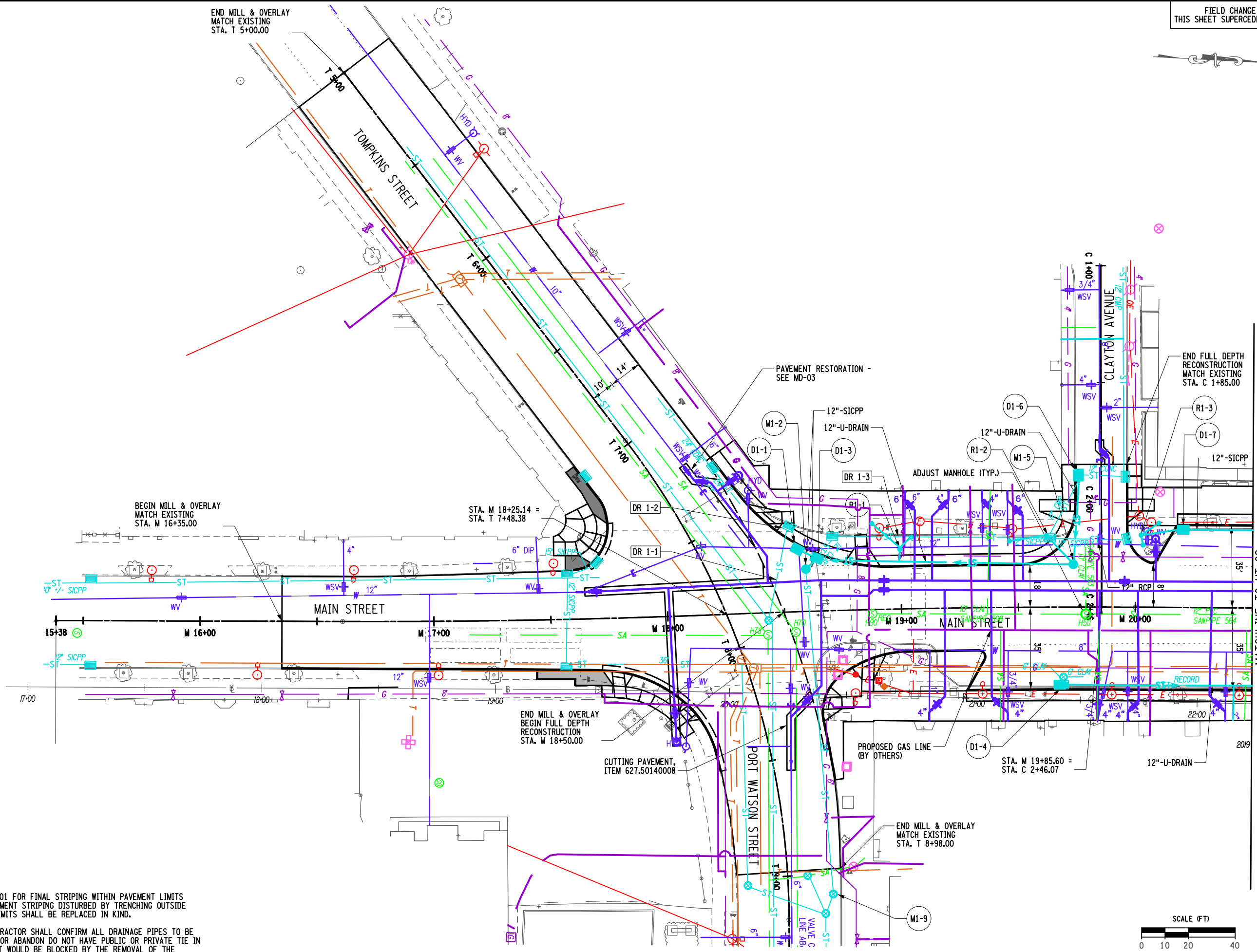
STA. M 18+25.14 =  
STA. T 7+48.38

END MILL & OVERLAY  
BEGIN FULL DEPTH  
RECONSTRUCTION  
STA. M 18+50.00

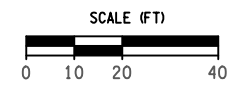
END FULL DEPTH  
RECONSTRUCTION  
MATCH EXISTING  
STA. C 1+85.00

END MILL & OVERLAY  
MATCH EXISTING  
STA. T 8+98.00

MATCHLINE TO UT-02



- NOTES:
- SEE SPM-01 FOR FINAL STRIPING WITHIN PAVEMENT LIMITS  
ALL PAVEMENT STRIPING DISTURBED BY TRENCHING OUTSIDE  
PAVING LIMITS SHALL BE REPLACED IN KIND.
  - THE CONTRACTOR SHALL CONFIRM ALL DRAINAGE PIPES TO BE  
REMOVED OR ABANDON DO NOT HAVE PUBLIC OR PRIVATE TIE IN  
PIPE THAT WOULD BE BLOCKED BY THE REMOVAL OF THE  
PIPE.



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28-MAR-2023 12:47  
Jaymes

REV	DESCRIPTION	DATE	BY
7			
6			
5			
4	CURB LINE CHANGES	3/17/23	JNT
3	FC3 DRAINAGE REVISIONS	12/9/22	JNT
2	DISPLAY NEW WATERMAIN	9/29/22	JNT
1			

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New York State Education Law Section  
1602 requires that the undersigned  
this plan for any person, unless he/she  
is a duly licensed professional engineer or land  
surveyor, to alter on them in any way,  
in whole or in part, or to be used for  
any purpose other than that intended,  
without the written consent of the  
designing engineer or land surveyor,  
and the violation thereof shall be deemed  
to be a violation of the provisions of  
the education law.

EA PROJECT NO.  
200395  
PROJECT MANAGER  
T. FAULKNER  
DRAWN BY  
J. TANSKI  
SCALE  
AS SHOWN  
ISSUE DATE  
FEB. 2022

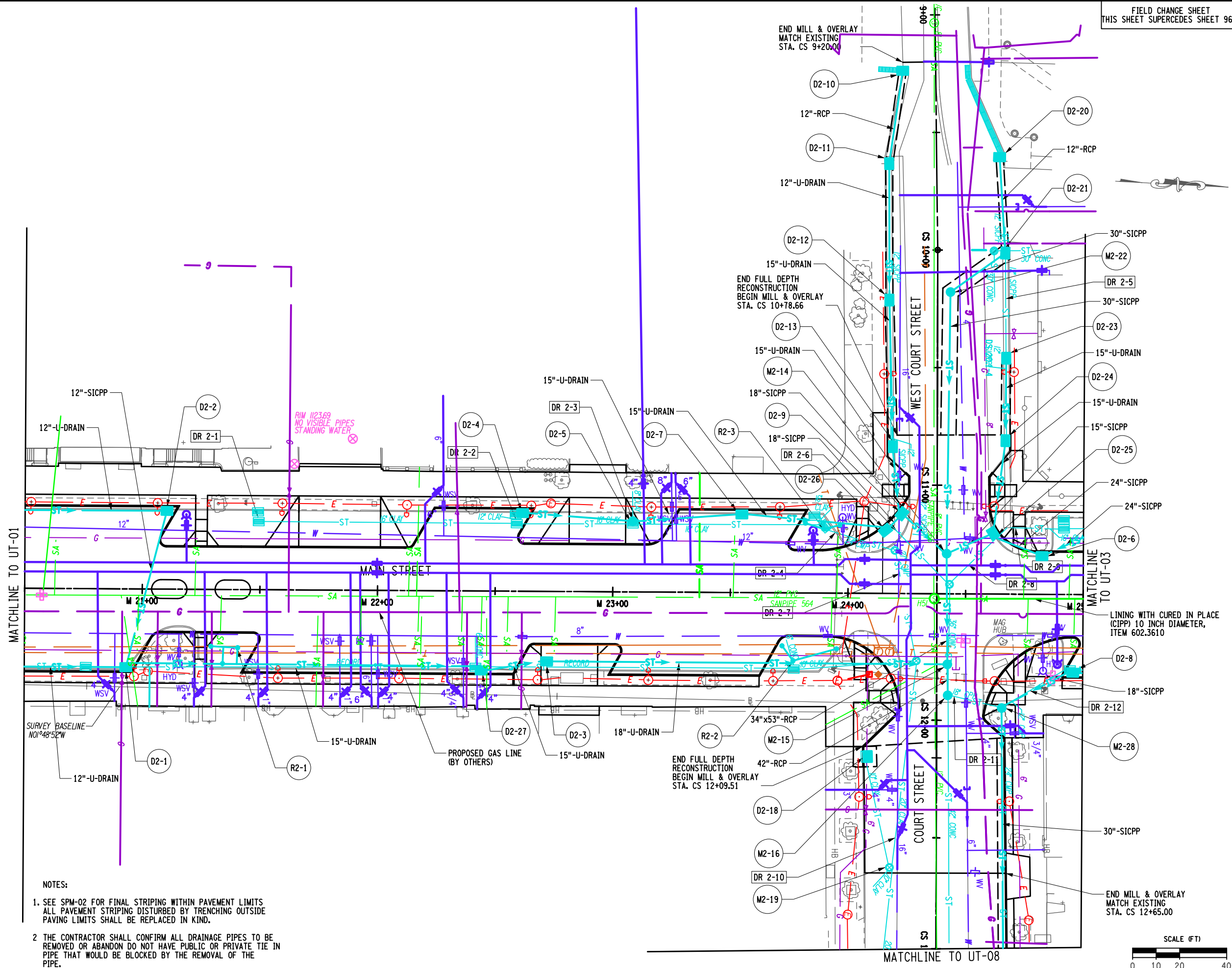


PROJECT  
MAIN STREET UTILITY  
IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK

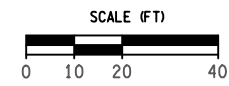
TITLE OF DRAWING  
UTILITY PLAN

DRAWING NO.  
**UT-01**  
SHEET 95F3 OF 171





- NOTES:
- SEE SPM-02 FOR FINAL STRIPING WITHIN PAVEMENT LIMITS ALL PAVEMENT STRIPING DISTURBED BY TRENCHING OUTSIDE PAVING LIMITS SHALL BE REPLACED IN KIND.
  - THE CONTRACTOR SHALL CONFIRM ALL DRAINAGE PIPES TO BE REMOVED OR ABANDON DO NOT HAVE PUBLIC OR PRIVATE TIE IN PIPE THAT WOULD BE BLOCKED BY THE REMOVAL OF THE PIPE.



REV	DESCRIPTION	DATE	BY
7			
6			
5	CURB LINE CHANGES	2/16/24	TRD
4	CURB LINE CHANGES	3/7/23	JNT
3	FC3 DRAINAGE REVISIONS	12/9/22	JNT
2	DRAINAGE REVISIONS	10/19/22	JNT
1	DRAINAGE REVISIONS	9/2/22	JNT

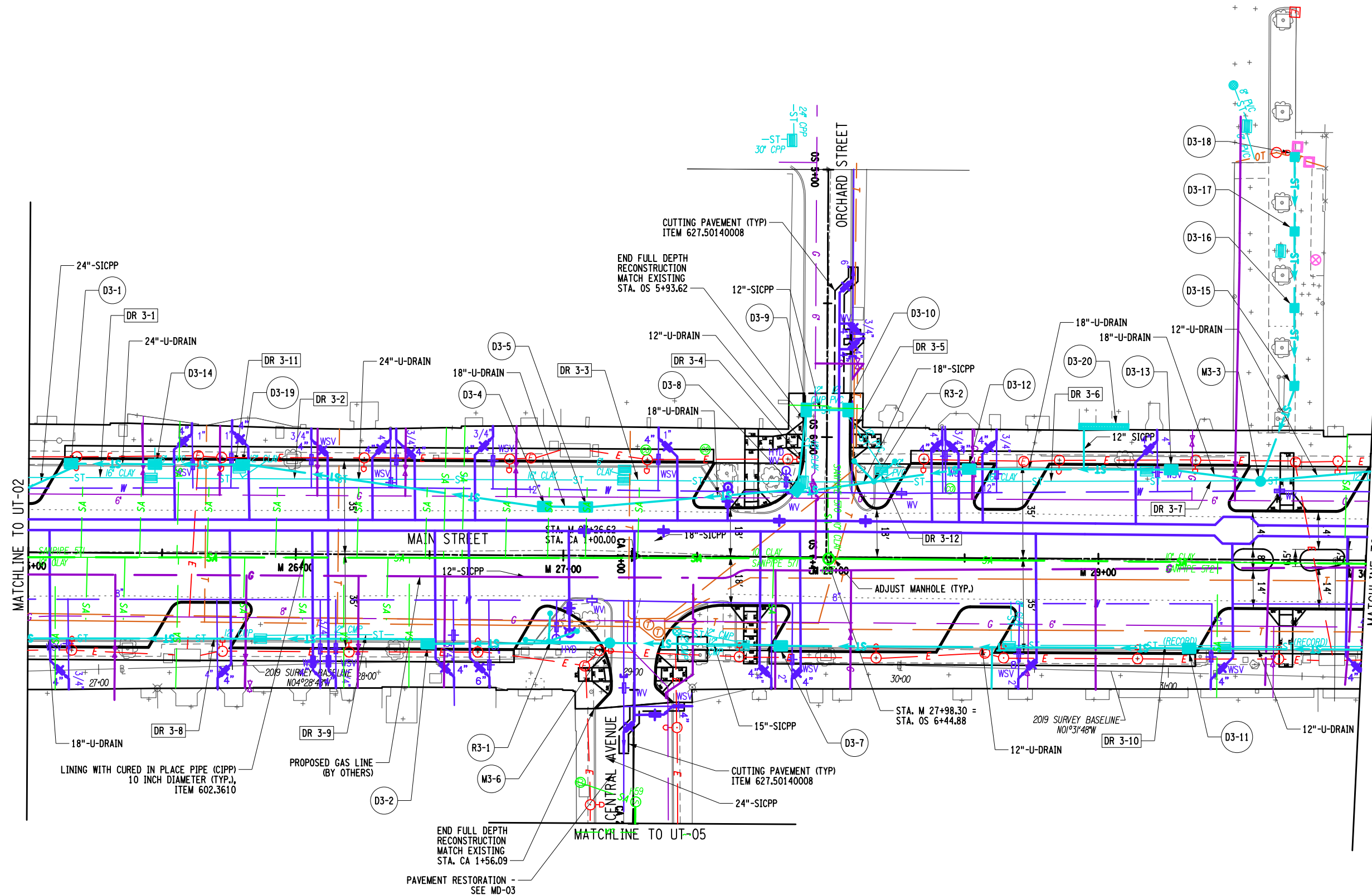
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the drawing, engineer or land surveyor  
must be notified and the drawing  
revised, and the revision must be  
initialed and dated by the engineer  
or land surveyor.

EA PROJECT NO.  
200395  
PROJECT MANAGER  
T. FAULKNER  
DRAWN BY  
J. TANSKI  
SCALE  
AS SHOWN  
ISSUE DATE  
FEB. 2022

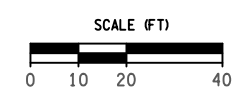


PROJECT  
MAIN STREET UTILITY  
IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK  
TITLE OF DRAWING  
GENERAL PLAN

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2/16/2024 5:55:08 PM T:MD



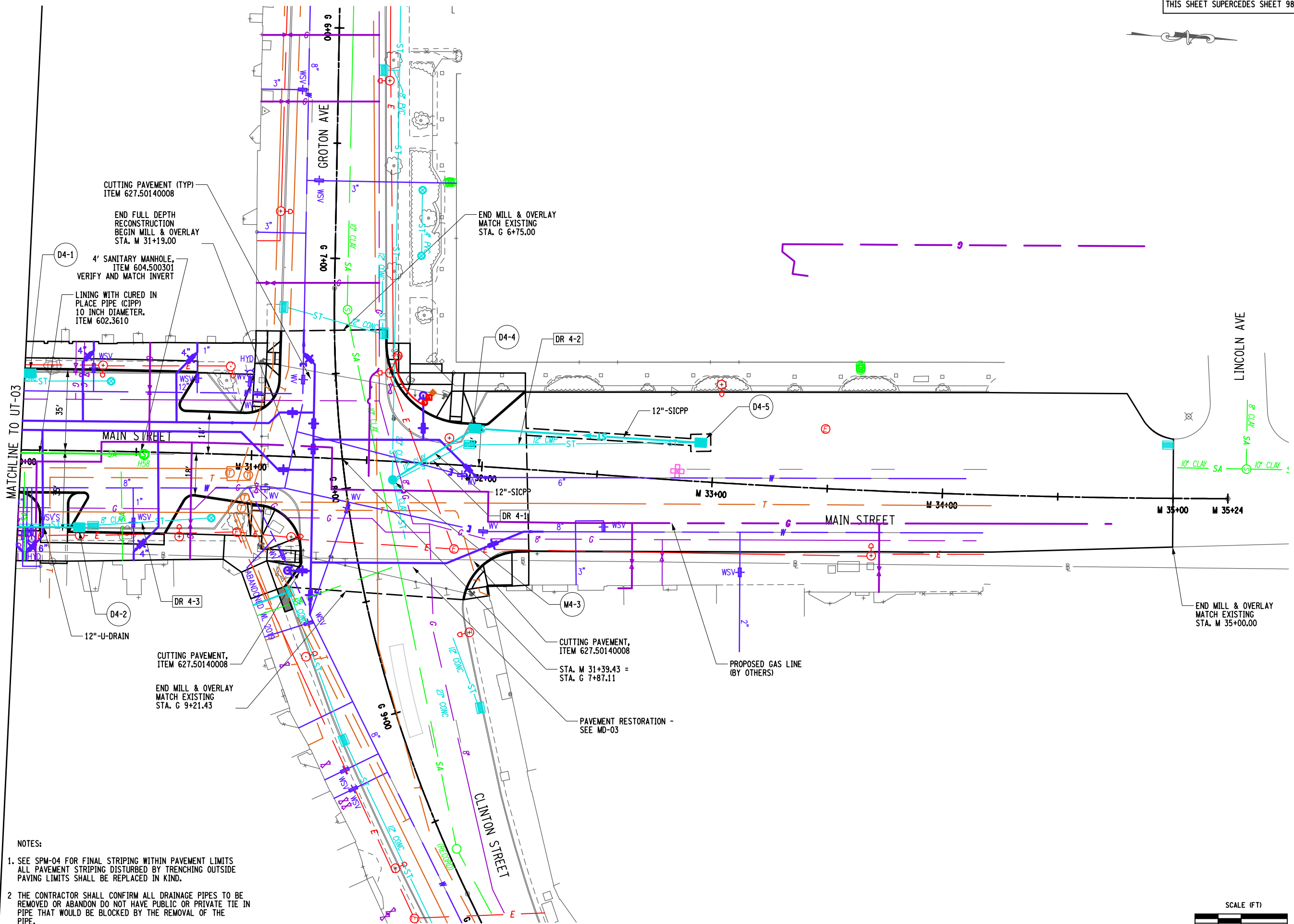
- NOTES:
- SEE SPM-03 FOR FINAL STRIPING WITHIN PAVEMENT LIMITS ALL PAVEMENT STRIPING DISTURBED BY TRENCHING OUTSIDE PAVING LIMITS SHALL BE REPLACED IN KIND.
  - THE CONTRACTOR SHALL CONFIRM ALL DRAINAGE PIPES TO BE REMOVED OR ABANDON DO NOT HAVE PUBLIC OR PRIVATE TIE IN PIPE THAT WOULD BE BLOCKED BY THE REMOVAL OF THE PIPE.



PROJECT: <b>MAIN STREET UTILITY          IMPROVEMENT PROJECT          CITY OF CORTLAND          CORTLAND COUNTY, NEW YORK</b>		TITLE OF DRAWING: <b>UTILITY PLAN</b>	
DRAWING NO. <b>UT-03</b>		SHEET 97F4 OF 171	
PROJECT NO. <b>200395</b>		PROJECT MANAGER <b>T. FAULKNER</b>	
DRAWN BY <b>J. TANSKI</b>		ISSUE DATE <b>FEB. 2022</b>	
SCALE <b>AS SHOWN</b>		DATE <b>9/29/22</b>	
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<b>7</b>		<b>DATE</b>	
<b>6</b>		<b>BY</b>	
<b>5</b> DRAINAGE REVISIONS		<b>2/16/24</b> <b>JNT</b>	
<b>4</b> CURB LINE CHANGES		<b>3/17/23</b> <b>JNT</b>	
<b>3</b> FC3 DRAINAGE REVISIONS		<b>12/9/22</b> <b>JNT</b>	
<b>2</b> DISPLAY NEW WATERMAIN		<b>9/29/22</b> <b>JNT</b>	
<b>1</b>		<b>DATE</b>	



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 2/16/2024 5:55:18 PM T:\MD



CUTTING PAVEMENT (TYP)  
ITEM 627.50140008

END FULL DEPTH  
RECONSTRUCTION  
BEGIN MILL & OVERLAY  
STA. M 31+19.00

D4-1 4' SANITARY MANHOLE,  
ITEM 604.500301  
VERIFY AND MATCH INVERT

LINING WITH CURED IN  
PLACE PIPE (CIPP)  
10 INCH DIAMETER,  
ITEM 602.3610

END MILL & OVERLAY  
MATCH EXISTING  
STA. G 6+75.00

12"-U-DRAIN

CUTTING PAVEMENT,  
ITEM 627.50140008

END MILL & OVERLAY  
MATCH EXISTING  
STA. G 9+21.43

CUTTING PAVEMENT,  
ITEM 627.50140008

STA. M 31+39.43 =  
STA. G 7+87.11

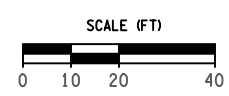
PROPOSED GAS LINE  
(BY OTHERS)

PAVEMENT RESTORATION -  
SEE MD-03

END MILL & OVERLAY  
MATCH EXISTING  
STA. M 35+00.00

NOTES:

- SEE SPM-04 FOR FINAL STRIPING WITHIN PAVEMENT LIMITS  
ALL PAVEMENT STRIPING DISTURBED BY TRENCHING OUTSIDE  
PAVING LIMITS SHALL BE REPLACED IN KIND.
- THE CONTRACTOR SHALL CONFIRM ALL DRAINAGE PIPES TO BE  
REMOVED OR ABANDON DO NOT HAVE PUBLIC OR PRIVATE TIE IN  
PIPE THAT WOULD BE BLOCKED BY THE REMOVAL OF THE  
PIPE.



200395\_sph\_UT-04.F.dgn  
28-MAR-2023 12:47  
JLJ/mjs

REV	DESCRIPTION	DATE	BY
7			
6			
5	CURB LINE CHANGES	3/27/23	JNT
4	FC3 DRAINAGE REVISIONS	12/9/22	JNT
3	ADDED SANITARY MH	10/18/22	JNT
2	DISPLAY NEW WATERMAIN	9/29/22	JNT
1			

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change in the ownership of a professional  
engineer or land surveyor, to alter on any  
alteration of a professional engineer or  
land surveyor's name or title, or  
the date of the engineer or land surveyor's  
license, or the date of the engineer or  
land surveyor's expiration, and a specific  
description of the alteration.

EA PROJECT NO.  
200395  
PROJECT MANAGER  
T. FAULKNER  
DRAWN BY  
J. TANSKI  
SCALE  
AS SHOWN  
ISSUE DATE  
FEB. 2022

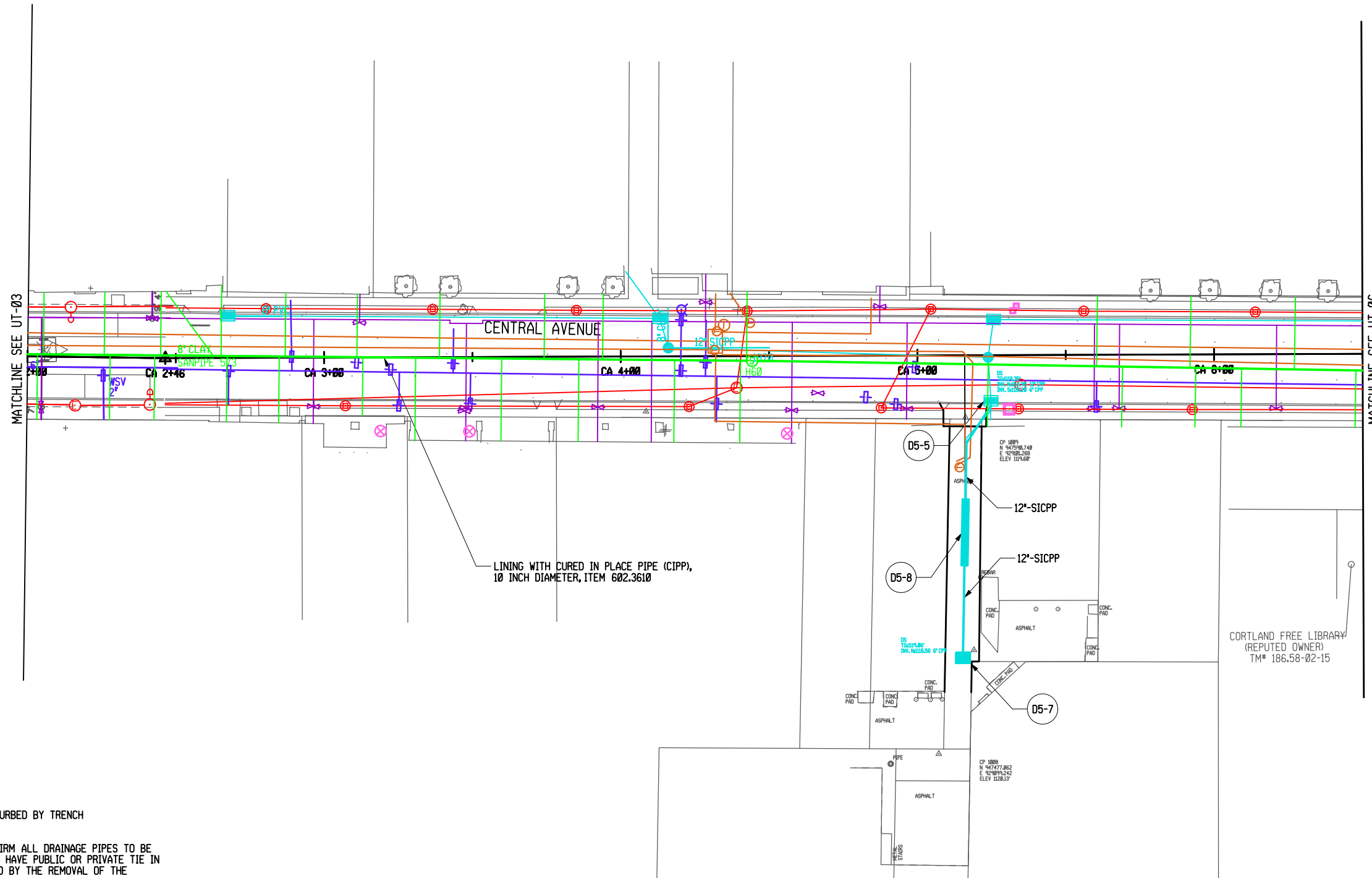


PROJECT  
MAIN STREET UTILITY  
IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK

TITLE OF DRAWING  
UTILITY PLAN

DRAWING NO.  
**UT-04**  
SHEET 98F4 OF 171

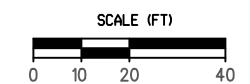
GRID  
NORTH



NOTES:

1. ALL PAVEMENT STRIPING DISTURBED BY TRENCH SHALL BE REPLACED IN KIND.
2. THE CONTRACTOR SHALL CONFIRM ALL DRAINAGE PIPES TO BE REMOVED OR ABANDON DO NOT HAVE PUBLIC OR PRIVATE TIE IN PIPE THAT WOULD BE BLOCKED BY THE REMOVAL OF THE PIPE.

200395\_sph\_UT-05\_F2.dgn  
19-DEC-2022 14:21 \*TIME\*  
pmaeko



7	REV	FC3 DRAINAGE REVISIONS	12/9/22	JNT	BY
6	REV	DRAINAGE REVISIONS	8/25/22	JNT	BY
5	REV				
4	REV				
3	REV				
2	REV	FC3 DRAINAGE REVISIONS	12/9/22	JNT	BY
1	REV	DRAINAGE REVISIONS	8/25/22	JNT	BY

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EA PROJECT NO.  
200395  
PROJECT MANAGER  
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J. TANSKI  
SCALE  
AS SHOWN  
ISSUE DATE  
FEB. 2022

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PROJECT  
MAIN STREET UTILITY  
IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK

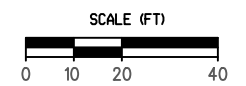
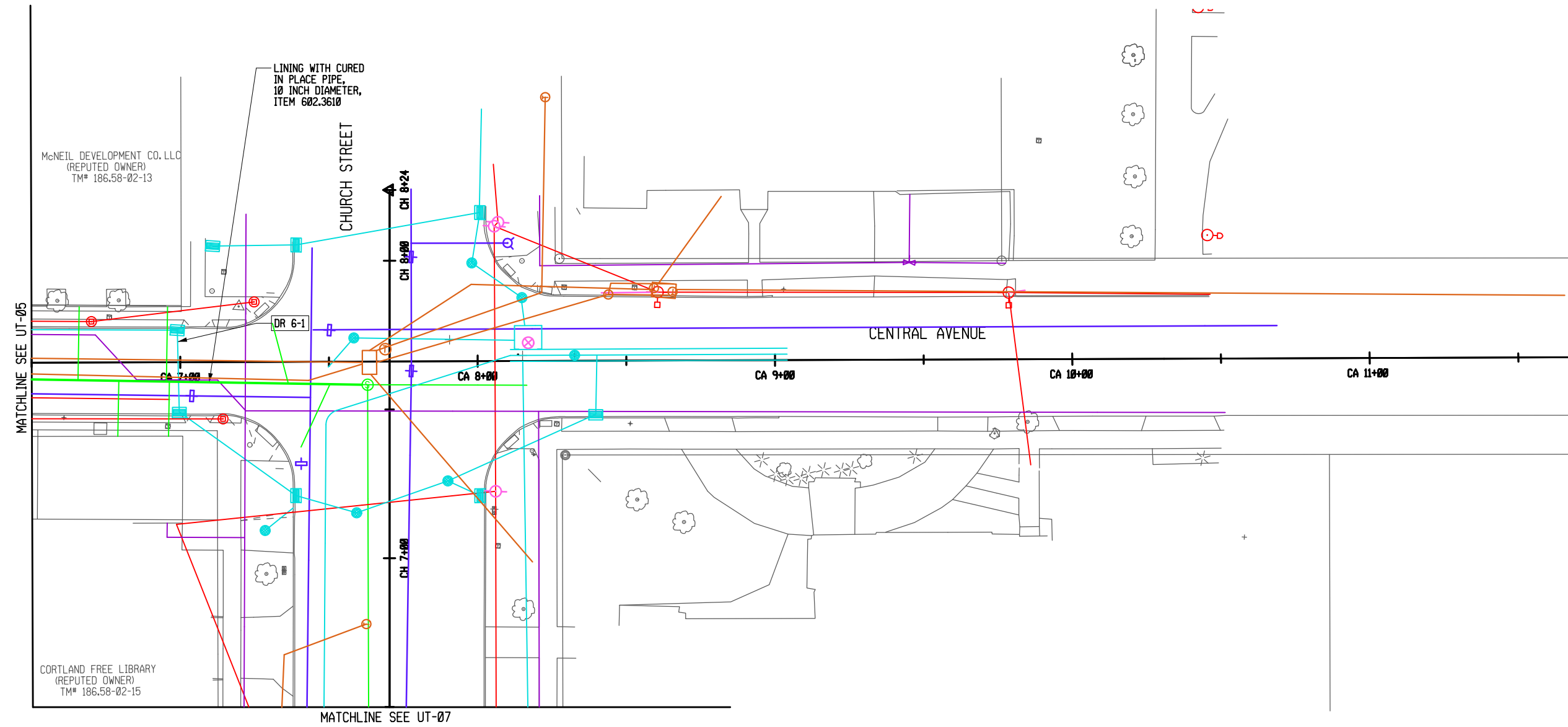
TITLE OF DRAWING  
UTILITY PLAN

DRAWING NO.  
**UT-05**

SHEET 99F2 OF 171

200315\_sph\_UT-06\_F2.dgn  
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 Jajmes

FIELD CHANGE SHEET  
 THIS SHEET SUPERCEDES SHEET 100F1



REV	DESCRIPTION	DATE	BY
1	FC3 DRAINAGE REVISIONS	12/9/22	JNT
2	DISPLAY NEW WATER MAIN	9/29/22	JNT
3			
4			
5			
6			
7			

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 without the written consent of the  
 drawing engineer or land surveyor, and  
 the notation "entered by" followed by  
 alteration, and a specific description  
 of the alteration.

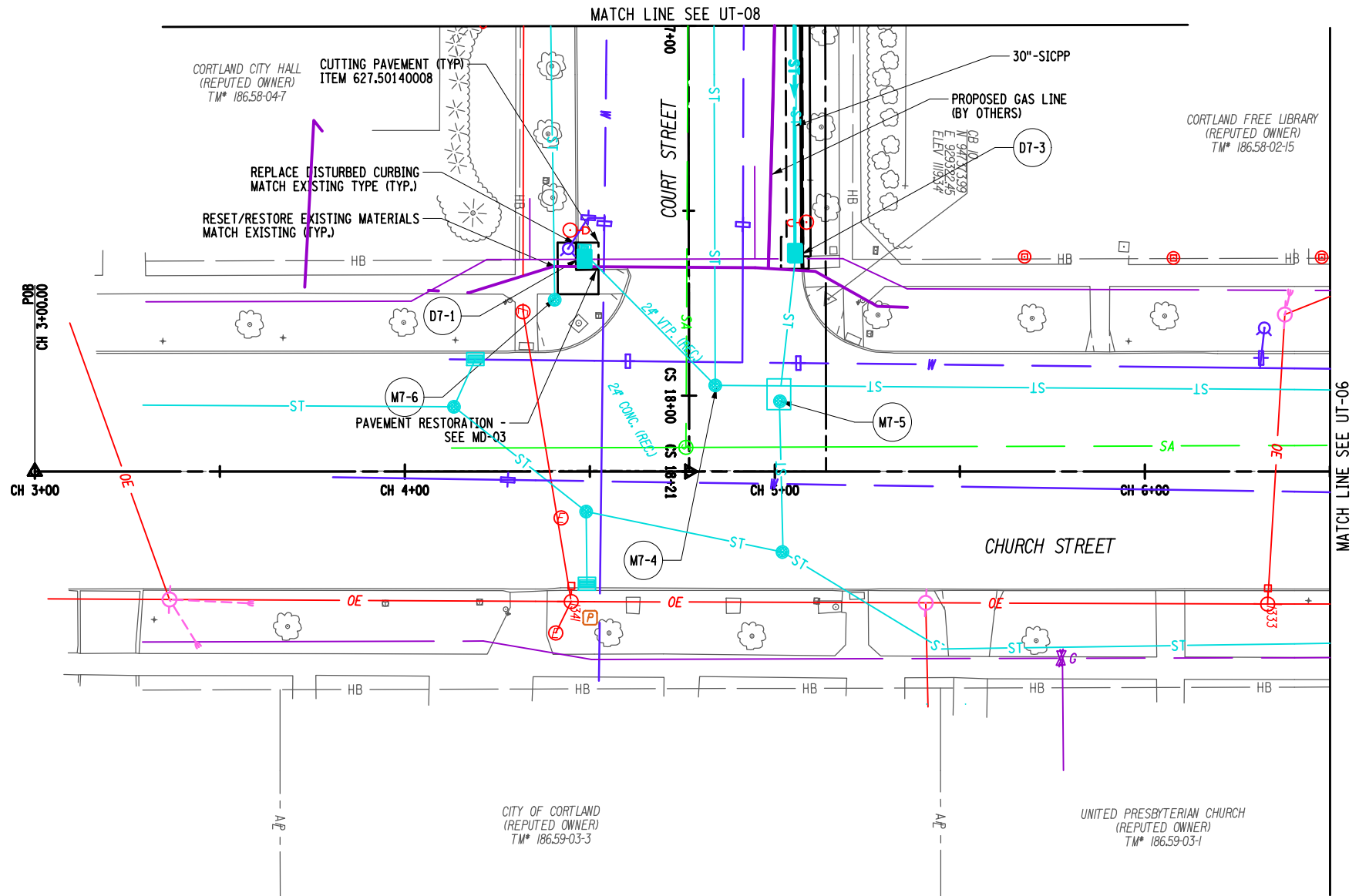
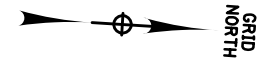
EA PROJECT NO.  
 200395  
 PROJECT MANAGER  
 T. FAULKNER  
 DRAWN BY  
 J. TANSKI  
 SCALE  
 AS SHOWN  
 ISSUE DATE  
 FEB. 2022



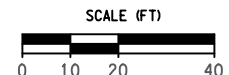
PROJECT  
 MAIN STREET UTILITY  
 IMPROVEMENT PROJECT  
 CITY OF CORTLAND  
 CORTLAND COUNTY, NEW YORK

TITLE OF DRAWING  
 UTILITY PLAN

DRAWING NO.  
**UT-06**  
 SHEET 100F2 OF 171



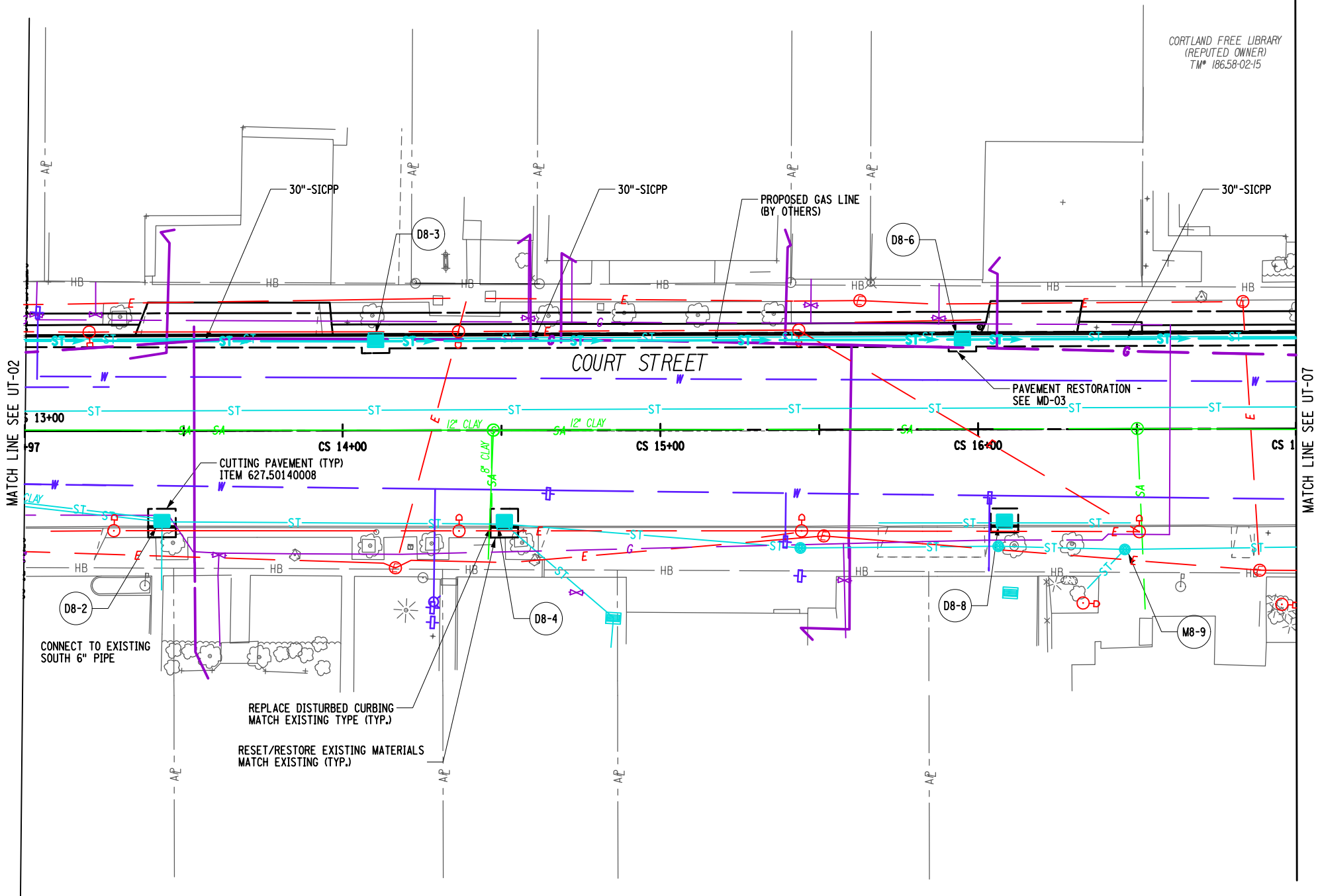
- NOTES:
1. ALL PAVEMENT STRIPING DISTURBED BY TRENCH SHALL BE REPLACED IN KIND.
  2. THE CONTRACTOR SHALL CONFIRM ALL DRAINAGE PIPES TO BE REMOVED OR ABANDON DO NOT HAVE PUBLIC OR PRIVATE TIE IN PIPE THAT WOULD BE BLOCKED BY THE REMOVAL OF THE PIPE.



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 2/16/2024 5:55:11 PM TMD

PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK		TITLE OF DRAWING: UTILITY PLAN	
DRAWING NO. <h1>UT-07</h1>		SHEET 101F2 OF 171	
PROJECT NO. 200395		PROJECT MANAGER T. FAULKNER	
DRAWN BY J. TANSKI		SCALE AS SHOWN	
ISSUE DATE FEB. 2022		FISCAL YEAR 2022	
STATE OF NEW YORK PROFESSIONAL ENGINEER 082814 PETER WOOD			
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7		REV	DESCRIPTION
6		1	DRAINAGE REVISIONS
5		2	DRAINAGE REVISIONS
4		3	DRAINAGE REVISIONS
3		4	DRAINAGE REVISIONS
2		5	DRAINAGE REVISIONS
1		6	DRAINAGE REVISIONS
		7	DRAINAGE REVISIONS
		8	DRAINAGE REVISIONS
		9	DRAINAGE REVISIONS
		10	DRAINAGE REVISIONS
		11	DRAINAGE REVISIONS
		12	DRAINAGE REVISIONS
		13	DRAINAGE REVISIONS
		14	DRAINAGE REVISIONS
		15	DRAINAGE REVISIONS
		16	DRAINAGE REVISIONS
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		40	DRAINAGE REVISIONS

GRID NORTH

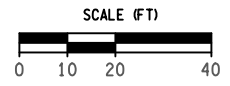


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MATCH LINE SEE UT-02

MATCH LINE SEE UT-07

- NOTES:
1. ALL PAVEMENT STRIPING DISTURBED BY TRENCH SHALL BE REPLACED IN KIND.
  2. THE CONTRACTOR SHALL CONFIRM ALL DRAINAGE PIPES TO BE REMOVED OR ABANDON DO NOT HAVE PUBLIC OR PRIVATE TIE IN PIPE THAT WOULD BE BLOCKED BY THE REMOVAL OF THE PIPE.



REV	DESCRIPTION	DATE	BY
1	DRAINAGE REVISIONS	2/16/24	TRD
2	DRAINAGE REVISIONS	9/2/22	JNT
3			
4			
5			
6			
7			

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EA PROJECT NO.  
200395  
PROJECT MANAGER  
T. FAULKNER  
DRAWN BY  
J. TANSKI  
SCALE  
AS SHOWN  
ISSUE DATE  
FEB. 2022



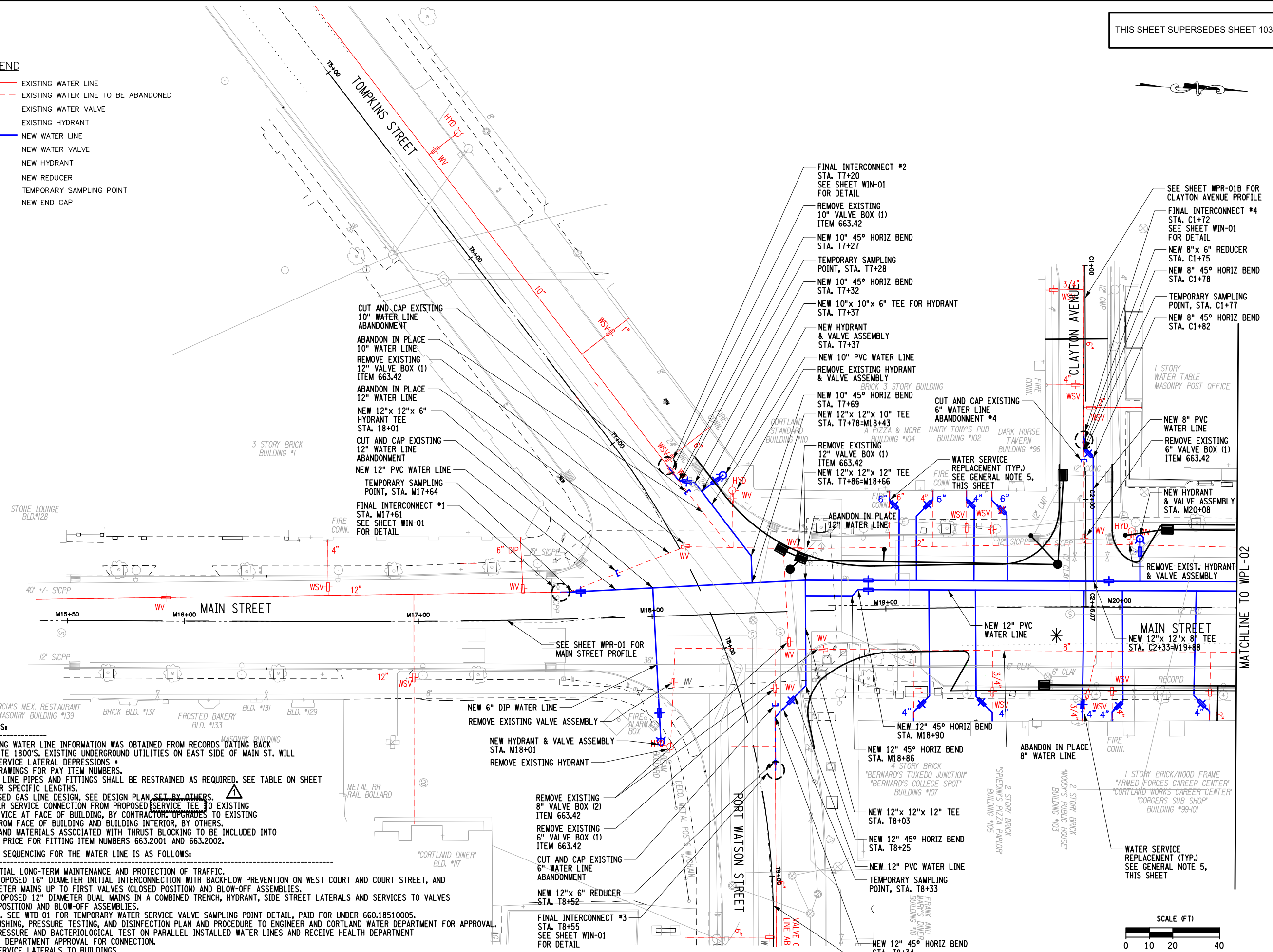
PROJECT  
MAIN STREET UTILITY  
IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK  
TITLE OF DRAWING  
UTILITY PLAN

DRAWING NO.  
**UT-08**

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2/16/2024  
5:55:13 PM  
TMD

LEGEND

- EXISTING WATER LINE
- - - EXISTING WATER LINE TO BE ABANDONED
- ⊕ EXISTING WATER VALVE
- ⊕ EXISTING HYDRANT
- NEW WATER LINE
- ⊕ NEW WATER VALVE
- ⊕ NEW HYDRANT
- NEW REDUCER
- TEMPORARY SAMPLING POINT
- ⌋ NEW END CAP



GENERAL NOTES:

1. THE EXISTING WATER LINE INFORMATION WAS OBTAINED FROM RECORDS DATING BACK TO THE LATE 1800'S. EXISTING UNDERGROUND UTILITIES ON EAST SIDE OF MAIN ST. WILL REQUIRE SERVICE LATERAL DEPRESSIONS.
2. SEE WTT DRAWINGS FOR PAY ITEM NUMBERS.
3. ALL WATER LINE PIPES AND FITTINGS SHALL BE RESTRAINED AS REQUIRED. SEE TABLE ON SHEET 663-02 FOR SPECIFIC LENGTHS.
4. FOR PROPOSED GAS LINE DESIGN, SEE DESIGN PLAN SET BY OTHERS.
5. FINAL WATER SERVICE CONNECTION FROM PROPOSED SERVICE TEE TO EXISTING WATER SERVICE AT FACE OF BUILDING, BY CONTRACTOR UPGRADES TO EXISTING SERVICE FROM FACE OF BUILDING AND BUILDING INTERIOR, BY OTHERS.
6. ALL WORK AND MATERIALS ASSOCIATED WITH THRUST BLOCKING TO BE INCLUDED INTO THE UNIT PRICE FOR FITTING ITEM NUMBERS 663.2001 AND 663.2002.

CONSTRUCTION SEQUENCING FOR THE WATER LINE IS AS FOLLOWS:

1. SET UP INITIAL LONG-TERM MAINTENANCE AND PROTECTION OF TRAFFIC.
2. INSTALL PROPOSED 16" DIAMETER INITIAL INTERCONNECTION WITH BACKFLOW PREVENTION ON WEST COURT AND COURT STREET, AND 12" DIAMETER MAINS UP TO FIRST VALVES (CLOSED POSITION) AND BLOW-OFF ASSEMBLIES.
3. INSTALL PROPOSED 12" DIAMETER DUAL MAINS IN A COMBINED TRENCH, HYDRANT, SIDE STREET LATERALS AND SERVICES TO VALVES (CLOSED POSITION) AND BLOW-OFF ASSEMBLIES.
  - A. SEE WTD-01 FOR TEMPORARY WATER SERVICE VALVE SAMPLING POINT DETAIL, PAID FOR UNDER 660.18510005.
4. SUBMIT FLUSHING, PRESSURE TESTING, AND DISINFECTION PLAN AND PROCEDURE TO ENGINEER AND CORTLAND WATER DEPARTMENT FOR APPROVAL.
5. CONDUCT PRESSURE AND BACTERIOLOGICAL TEST ON PARALLEL INSTALLED WATER LINES AND RECEIVE HEALTH DEPARTMENT AND WATER DEPARTMENT APPROVAL FOR CONNECTION.
6. CONNECT SERVICE LATERALS TO BUILDINGS.
7. CONNECT FINAL INTERCONNECTIONS TO SIDE STREETS AND MAINS.
8. INSTALL TEMPORARY RESTORATION MEASURES PER APPROVED CONSTRUCTION SEQUENCING PLAN.

NO.	DATE	DESCRIPTION	BY
7			
6			
5			
4	3/17/23	CURB LINE CHANGES	JNT
3	9/30/22	WATERMAIN REDESIGN	BAK
2	4/15/22	REVISED GENERAL NOTE 5	BAK
1			

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EA PROJECT NO. 200395  
 PROJECT MANAGER T. FAULKNER  
 DRAWN BY B. KNIGHTON  
 SCALE AS SHOWN  
 ISSUE DATE FEB. 2022



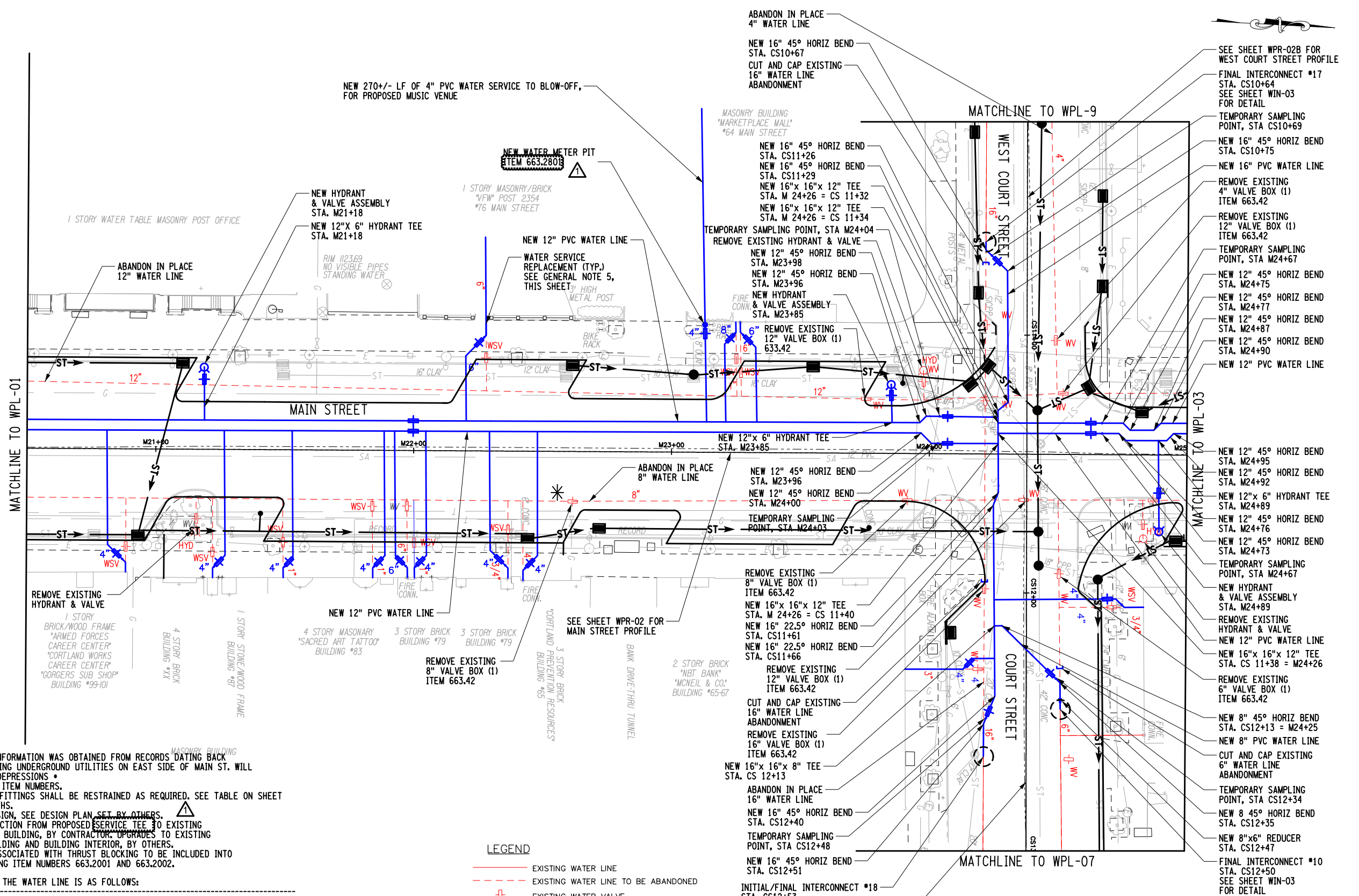
PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT  
 CITY OF CORTLAND  
 CORTLAND COUNTY, NEW YORK  
 TITLE OF DRAWING: WATER LINE DESIGN PLAN

DRAWING NO. WPL-01  
 SHEET 103F2 OF 171

198237\_sph\_wpl-01.dgn  
 28-MAR-2023 12:47  
 JJaymes



FIELD CHANGE SHEET  
THIS SHEET SUPERSEDES SHEET 104F2



**GENERAL NOTES:**

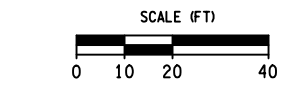
1. THE EXISTING WATER LINE INFORMATION WAS OBTAINED FROM RECORDS DATING BACK TO THE LATE 1800'S. EXISTING UNDERGROUND UTILITIES ON EAST SIDE OF MAIN ST. WILL REQUIRE SERVICE LATERAL DEPRESSIONS.
2. SEE WTT DRAWINGS FOR PAY ITEM NUMBERS.
3. ALL WATER LINE PIPES AND FITTINGS SHALL BE RESTRAINED AS REQUIRED. SEE TABLE ON SHEET 663-02 FOR SPECIFIC LENGTHS.
4. FOR PROPOSED GAS LINE DESIGN, SEE DESIGN PLAN SET BY OTHERS.
5. FINAL WATER SERVICE CONNECTION FROM PROPOSED SERVICE TEE TO EXISTING WATER SERVICE AT FACE OF BUILDING, BY CONTRACTOR. UPGRADES TO EXISTING SERVICE FROM FACE OF BUILDING AND BUILDING INTERIOR, BY OTHERS.
6. ALL WORK AND MATERIALS ASSOCIATED WITH THRUST BLOCKING TO BE INCLUDED INTO THE UNIT PRICE FOR FITTING ITEM NUMBERS 663.2001 AND 663.2002.

**CONSTRUCTION SEQUENCING FOR THE WATER LINE IS AS FOLLOWS:**

1. SET UP INITIAL LONG-TERM MAINTENANCE AND PROTECTION OF TRAFFIC.
2. INSTALL PROPOSED 16" DIAMETER INITIAL INTERCONNECTION WITH BACKFLOW PREVENTION ON WEST COURT AND COURT STREET, AND 12" DIAMETER MAINS UP TO FIRST VALVES (CLOSED POSITION) AND BLOW-OFF ASSEMBLIES.
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  - A. SEE WTD-01 FOR TEMPORARY WATER SERVICE VALVE SAMPLING POINT DETAIL, PAID FOR UNDER 660.18510005.
4. SUBMIT FLUSHING, PRESSURE TESTING, AND DISINFECTION PLAN AND PROCEDURE TO ENGINEER AND CORTLAND WATER DEPARTMENT FOR APPROVAL.
5. CONDUCT PRESSURE AND BACTERIOLOGICAL TEST ON PARALLEL INSTALLED WATER LINES AND RECEIVE HEALTH DEPARTMENT AND WATER DEPARTMENT APPROVAL FOR CONNECTION.
6. CONNECT SERVICE LATERALS TO BUILDINGS.
7. CONNECT FINAL INTERCONNECTIONS TO SIDE STREETS AND MAINS.
8. INSTALL TEMPORARY RESTORATION MEASURES PER APPROVED CONSTRUCTION SEQUENCING PLAN.

**LEGEND**

- EXISTING WATER LINE
- - - EXISTING WATER LINE TO BE ABANDONED
- ⊕ EXISTING WATER VALVE
- ⊙ EXISTING HYDRANT
- NEW WATER LINE
- ⊕ NEW WATER VALVE
- ⊙ NEW HYDRANT
- ▭ NEW REDUCER
- TEMPORARY SAMPLING POINT
- ⌋ NEW END CAP



PROJECT	MAIN STREET UTILITY IMPROVEMENT PROJECT
CITY OF CORTLAND	CORTLAND COUNTY, NEW YORK
TITLE OF DRAWING	WATER LINE DESIGN PLAN
DRAWING NO.	WPL-02
SHEET	104F3 OF 171
DATE	4/15/22
BY	BAK
DATE	9/30/22
BAK	12/15/22
JNT	3/17/23
DESCRIPTION	WATERMAIN REDESIGN
REV	1
REV	2
REV	3
REV	4
REV	5
REV	6
REV	7

STATE OF NEW YORK  
SEAL OF THE STATE ENGINEER  
EDWARD W. KOSTOWNIK  
08.15.17  
LICENSED PROFESSIONAL ENGINEER

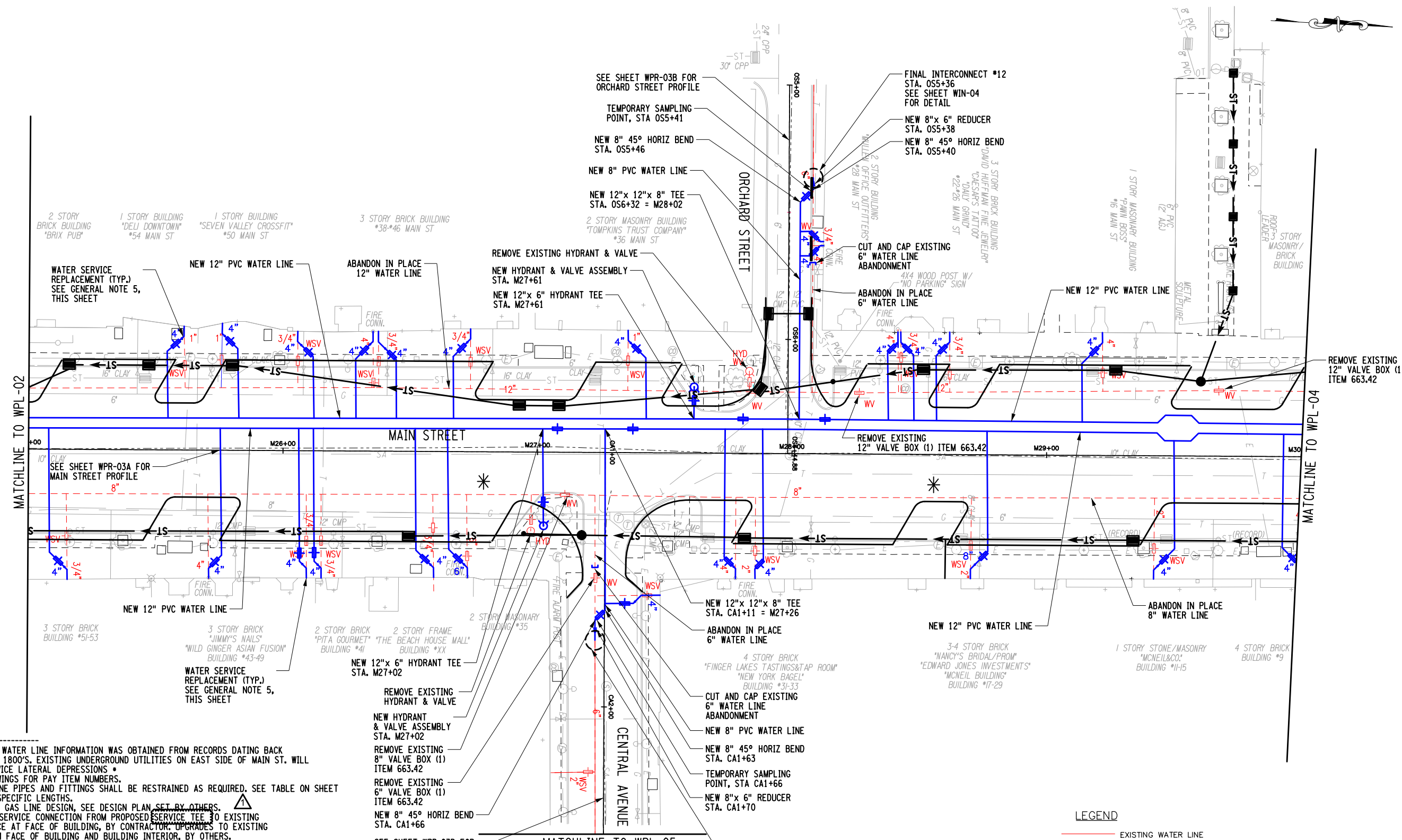
ISSUE DATE  
FEB. 2022  
SCALE  
AS SHOWN

PROJECT MANAGER  
T. FAULKNER  
DRAWN BY  
B. KNIGHTON

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28-MAR-2023 12:47  
JLaymes

FIELD CHANGE SHEET  
THIS SHEET SUPERSEDES SHEET 105F2



**GENERAL NOTES:**

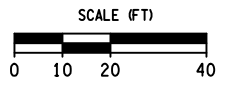
1. THE EXISTING WATER LINE INFORMATION WAS OBTAINED FROM RECORDS DATING BACK TO THE LATE 1800'S. EXISTING UNDERGROUND UTILITIES ON EAST SIDE OF MAIN ST. WILL REQUIRE SERVICE LATERAL DEPRESSIONS
2. SEE WTT DRAWINGS FOR PAY ITEM NUMBERS.
3. ALL WATER LINE PIPES AND FITTINGS SHALL BE RESTRAINED AS REQUIRED. SEE TABLE ON SHEET 663-02 FOR SPECIFIC LENGTHS.
4. FOR PROPOSED GAS LINE DESIGN, SEE DESIGN PLAN SET BY OTHERS.
5. FINAL WATER SERVICE CONNECTION FROM PROPOSED SERVICE TEE TO EXISTING WATER SERVICE AT FACE OF BUILDING, BY CONTRACTOR. UPGRADES TO EXISTING SERVICE FROM FACE OF BUILDING AND BUILDING INTERIOR, BY OTHERS.
6. ALL WORK AND MATERIALS ASSOCIATED WITH THRUST BLOCKING TO BE INCLUDED INTO THE UNIT PRICE FOR FITTING ITEM NUMBERS 663.2001 AND 663.2002.

**CONSTRUCTION SEQUENCING FOR THE WATER LINE IS AS FOLLOWS:**

1. SET UP INITIAL LONG-TERM MAINTENANCE AND PROTECTION OF TRAFFIC.
2. INSTALL PROPOSED 16" DIAMETER INITIAL INTERCONNECTION WITH BACKFLOW PREVENTION ON WEST COURT AND COURT STREET, AND 12" DIAMETER MAINS UP TO FIRST VALVES (CLOSED POSITION) AND BLOW-OFF ASSEMBLIES.
3. INSTALL PROPOSED 12" DIAMETER DUAL MAINS IN A COMBINED TRENCH, HYDRANT, SIDE STREET LATERALS AND SERVICES TO VALVES (CLOSED POSITION) AND BLOW-OFF ASSEMBLIES.
  - A. SEE WTD-01 FOR TEMPORARY WATER SERVICE VALVE SAMPLING POINT DETAIL, PAID FOR UNDER 660.18510005.
4. SUBMIT FLUSHING, PRESSURE TESTING, AND DISINFECTION PLAN AND PROCEDURE TO ENGINEER AND CORTLAND WATER DEPARTMENT FOR APPROVAL.
5. CONDUCT PRESSURE AND BACTERIOLOGICAL TEST ON PARALLEL INSTALLED WATER LINES AND RECEIVE HEALTH DEPARTMENT AND WATER DEPARTMENT APPROVAL FOR CONNECTION.
6. CONNECT SERVICE LATERALS TO BUILDINGS.
7. CONNECT FINAL INTERCONNECTIONS TO SIDE STREETS AND MAINS.
8. INSTALL TEMPORARY RESTORATION MEASURES PER APPROVED CONSTRUCTION SEQUENCING PLAN.

**LEGEND**

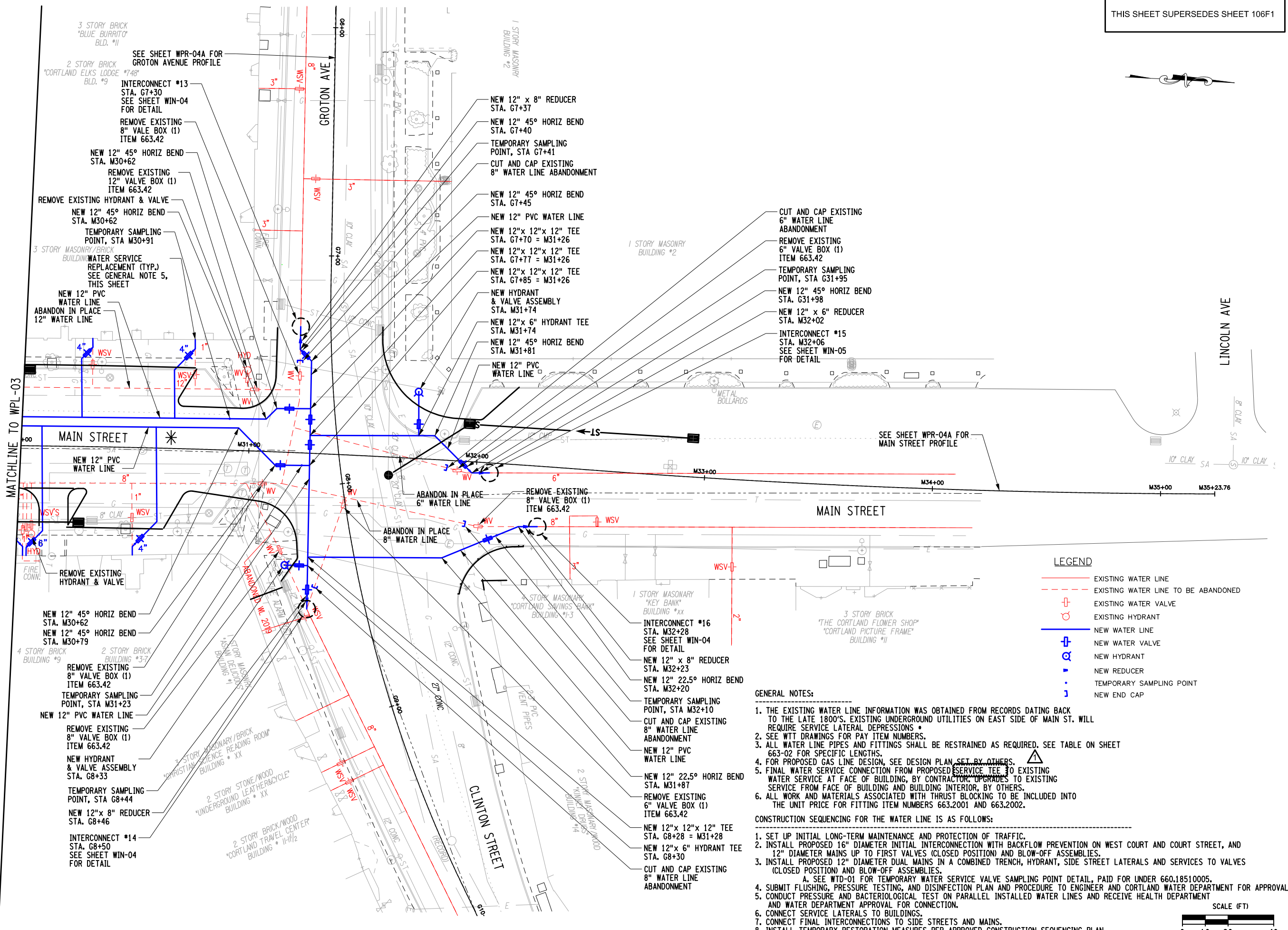
- EXISTING WATER LINE
- - - EXISTING WATER LINE TO BE ABANDONED
- ⊕ EXISTING WATER VALVE
- ⊕ EXISTING HYDRANT
- NEW WATER LINE
- ⊕ NEW WATER VALVE
- ⊕ NEW HYDRANT
- ▬ NEW REDUCER
- TEMPORARY SAMPLING POINT
- 1 NEW END CAP



190237\_sph\_wpl-03.dgn  
28-MAR-2023 12:47  
Jajmas

PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK	TITLE OF DRAWING: WATER LINE DESIGN PLAN
DRAWING NO. <b>WPL-03</b>	
SHEET 105F3 OF 171	
PROJECT NO. 200395	PROJECT MANAGER T. FAULKNER
DRAWN BY B. KNIGHTON	CHECKED BY AS SHOWN
SCALE AS SHOWN	ISSUE DATE FEB. 2022
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7 6 5 4 3 2 1	REV DESCRIPTION DATE 3/17/23 JNT 12/15/22 JNT 9/30/22 BAK 4/15/22 BAK BY

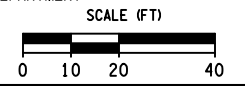
THIS SHEET SUPERSEDES SHEET 106F1



**LEGEND**

	EXISTING WATER LINE
	EXISTING WATER LINE TO BE ABANDONED
	EXISTING WATER VALVE
	EXISTING HYDRANT
	NEW WATER LINE
	NEW WATER VALVE
	NEW HYDRANT
	NEW REDUCER
	TEMPORARY SAMPLING POINT
	NEW END CAP

- GENERAL NOTES:**
1. THE EXISTING WATER LINE INFORMATION WAS OBTAINED FROM RECORDS DATING BACK TO THE LATE 1800'S. EXISTING UNDERGROUND UTILITIES ON EAST SIDE OF MAIN ST. WILL REQUIRE SERVICE LATERAL DEPRESSIONS.
  2. SEE WIT DRAWINGS FOR PAY ITEM NUMBERS.
  3. ALL WATER LINE PIPES AND FITTINGS SHALL BE RESTRAINED AS REQUIRED. SEE TABLE ON SHEET 663-02 FOR SPECIFIC LENGTHS.
  4. FOR PROPOSED GAS LINE DESIGN, SEE DESIGN PLAN SET BY OTHERS.
  5. FINAL WATER SERVICE CONNECTION FROM PROPOSED SERVICE TEE TO EXISTING WATER SERVICE AT FACE OF BUILDING, BY CONTRACTOR. UPGRADES TO EXISTING SERVICE FROM FACE OF BUILDING AND BUILDING INTERIOR, BY OTHERS.
  6. ALL WORK AND MATERIALS ASSOCIATED WITH THRUST BLOCKING TO BE INCLUDED INTO THE UNIT PRICE FOR FITTING ITEM NUMBERS 663.2001 AND 663.2002.
- CONSTRUCTION SEQUENCING FOR THE WATER LINE IS AS FOLLOWS:**
1. SET UP INITIAL LONG-TERM MAINTENANCE AND PROTECTION OF TRAFFIC.
  2. INSTALL PROPOSED 16" DIAMETER INITIAL INTERCONNECTION WITH BACKFLOW PREVENTION ON WEST COURT AND COURT STREET, AND 12" DIAMETER MAINS UP TO FIRST VALVES (CLOSED POSITION) AND BLOW-OFF ASSEMBLIES.
  3. INSTALL PROPOSED 12" DIAMETER DUAL MAINS IN A COMBINED TRENCH, HYDRANT, SIDE STREET LATERALS AND SERVICES TO VALVES (CLOSED POSITION) AND BLOW-OFF ASSEMBLIES.
    - A. SEE WTD-01 FOR TEMPORARY WATER SERVICE VALVE SAMPLING POINT DETAIL, PAID FOR UNDER 660.18510005.
  4. SUBMIT FLUSHING, PRESSURE TESTING, AND DISINFECTION PLAN AND PROCEDURE TO ENGINEER AND CORTLAND WATER DEPARTMENT FOR APPROVAL.
  5. CONDUCT PRESSURE AND BACTERIOLOGICAL TEST ON PARALLEL INSTALLED WATER LINES AND RECEIVE HEALTH DEPARTMENT AND WATER DEPARTMENT APPROVAL FOR CONNECTION.
  6. CONNECT SERVICE LATERALS TO BUILDINGS.
  7. CONNECT FINAL INTERCONNECTIONS TO SIDE STREETS AND MAINS.
  8. INSTALL TEMPORARY RESTORATION MEASURES PER APPROVED CONSTRUCTION SEQUENCING PLAN.

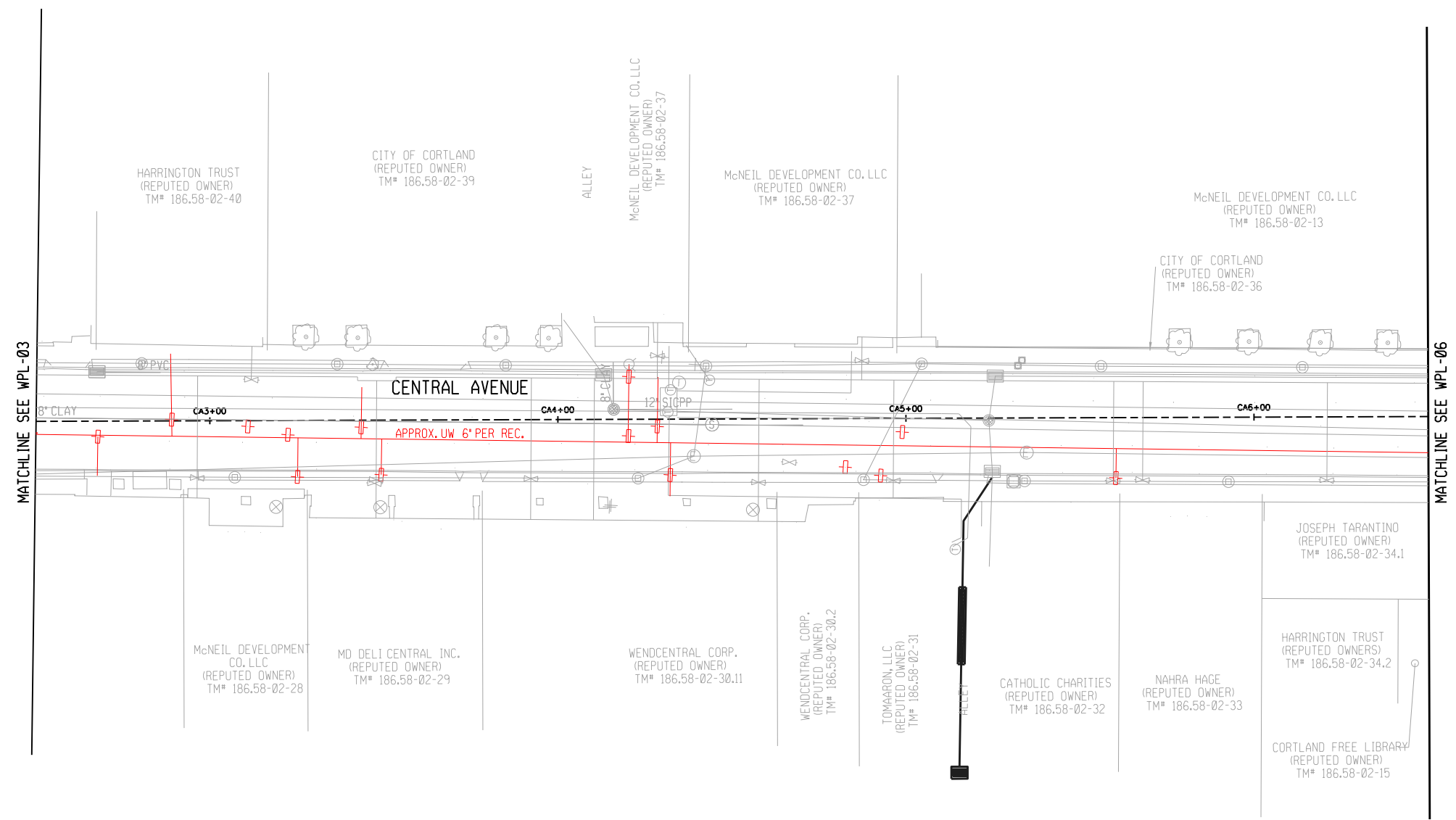


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<p>STATE OF NEW YORK EDWARD W. ROSTOWNIK LICENSED PROFESSIONAL ENGINEER 081517</p> <p><b>FISHER ASSOCIATES</b> WWW.FISHERASSOC.COM</p> <p>PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK</p> <p>TITLE OF DRAWING: WATER LINE DESIGN PLAN</p> <p>DRAWING NO: <b>WPL-04</b></p> <p>SHEET 106F2 OF 171</p>										

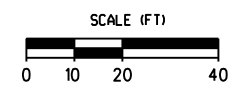
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28-MAR-2023 12:47  
J. Jaymes

FIELD CHANGE SHEET  
THIS SHEET SUPERSEDES SHEET 107F1

- LEGEND**
- EXISTING WATER LINE
  - EXISTING WATER LINE TO BE ABANDONED
  - EXISTING WATER VALVE
  - EXISTING HYDRANT
  - NEW WATER LINE
  - NEW WATER VALVE
  - NEW HYDRANT
  - NEW REDUCER
  - TEMPORARY SAMPLING POINT
  - NEW END CAP



NO WATER LINE IMPROVEMENTS ON THIS SHEET



REV	DESCRIPTION	DATE	BY
1	REMOVED IMPROVEMENTS	12/15/22	JNT
2	REVISED NOTES	9/27/22	BAK
3	REVISED GENERAL NOTE 5	4/15/22	BAK
4			
5			
6			
7			

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without the written consent of the design  
professional, entered by the design  
professional, and a specific description  
of the correction.

EA PROJECT NO.  
200395  
PROJECT MANAGER  
T. FAULKNER  
DRAWN BY  
B. KNIGHTON  
SCALE  
AS SHOWN  
ISSUE DATE  
FEB. 2022



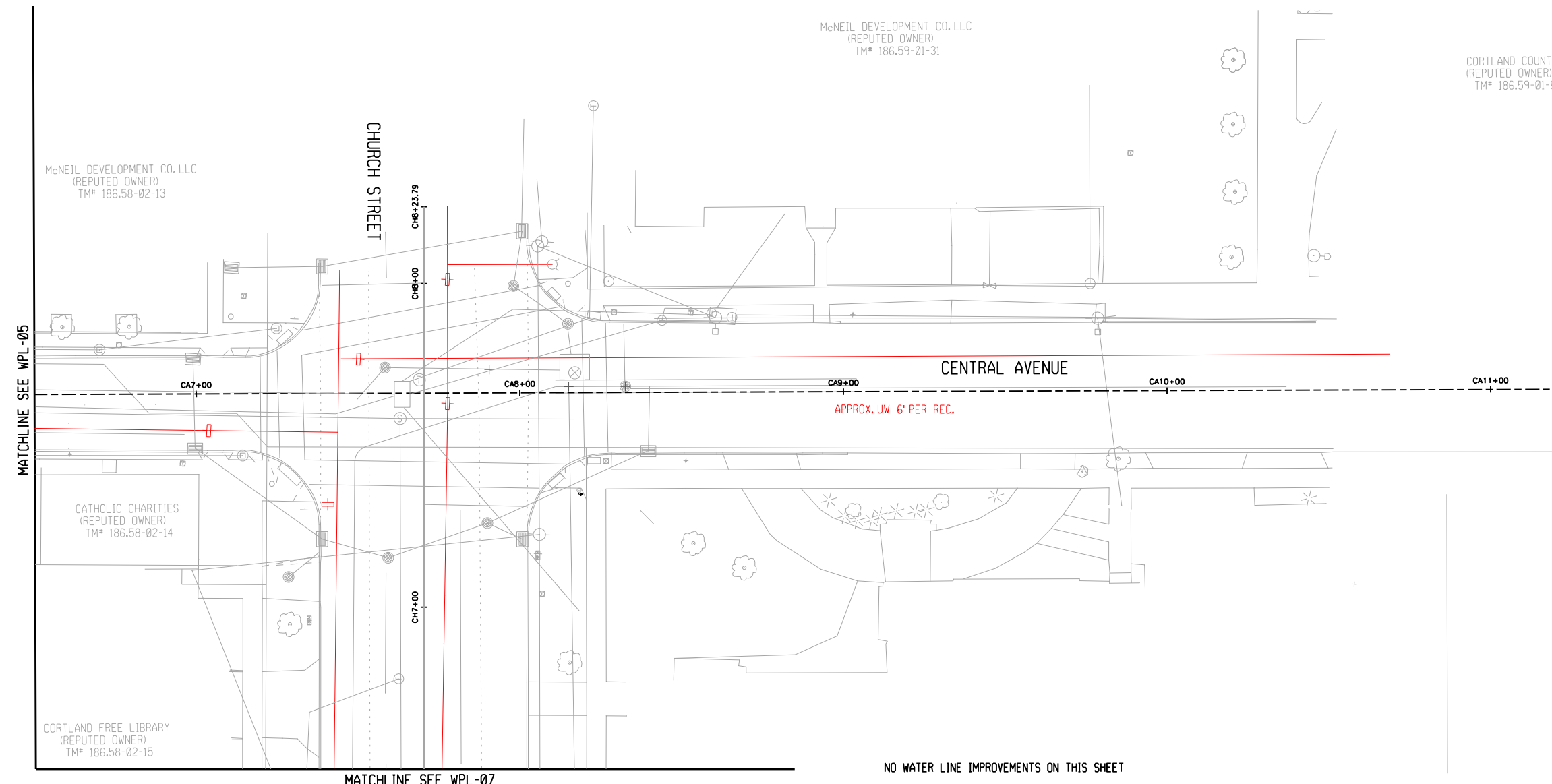
PROJECT  
MAIN STREET UTILITY  
IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK  
TITLE OF DRAWING  
WATERLINE DESIGN PLAN

DRAWING NO.  
**WPL-05**  
SHEET 107F2 OF 171

LEGEND

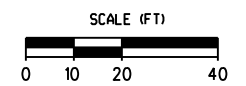
- EXISTING WATER LINE
- - - EXISTING WATER LINE TO BE ABANDONED
- ⊕ EXISTING WATER VALVE
- ⊗ EXISTING HYDRANT
- NEW WATER LINE
- ⊕ NEW WATER VALVE
- ⊗ NEW HYDRANT
- - - NEW REDUCER
- · · TEMPORARY SAMPLING POINT
- ⌒ NEW END CAP

FIELD CHANGE SHEET  
THIS SHEET SUPERSEDES SHEET 108F1



MATCHLINE SEE WPL-05

MATCHLINE SEE WPL-07



REV	DESCRIPTION	DATE	BY
1	REMOVED IMPROVEMENTS	12/15/22	JNT
2	REVISED GENERAL NOTE 5	9/27/22	BAK
3	REVISED GENERAL NOTE 5	4/15/22	BAK
4			
5			
6			
7			

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prepared, or to use the drawing or land  
survey for any purpose other than that  
for which it was prepared, without the  
written consent of the holder of this  
license, is a violation of the provisions  
of the education law.

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200395  
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T. FAULKNER  
DRAWN BY  
B. KNIGHTON  
SCALE  
AS SHOWN  
ISSUE DATE  
FEB. 2022



PROJECT  
MAIN STREET UTILITY  
IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK











TITLE OF DRAWING  
WATERLINE DESIGN PLAN

DRAWING NO.  
WPL-06  
SHEET 108F2 OF 171

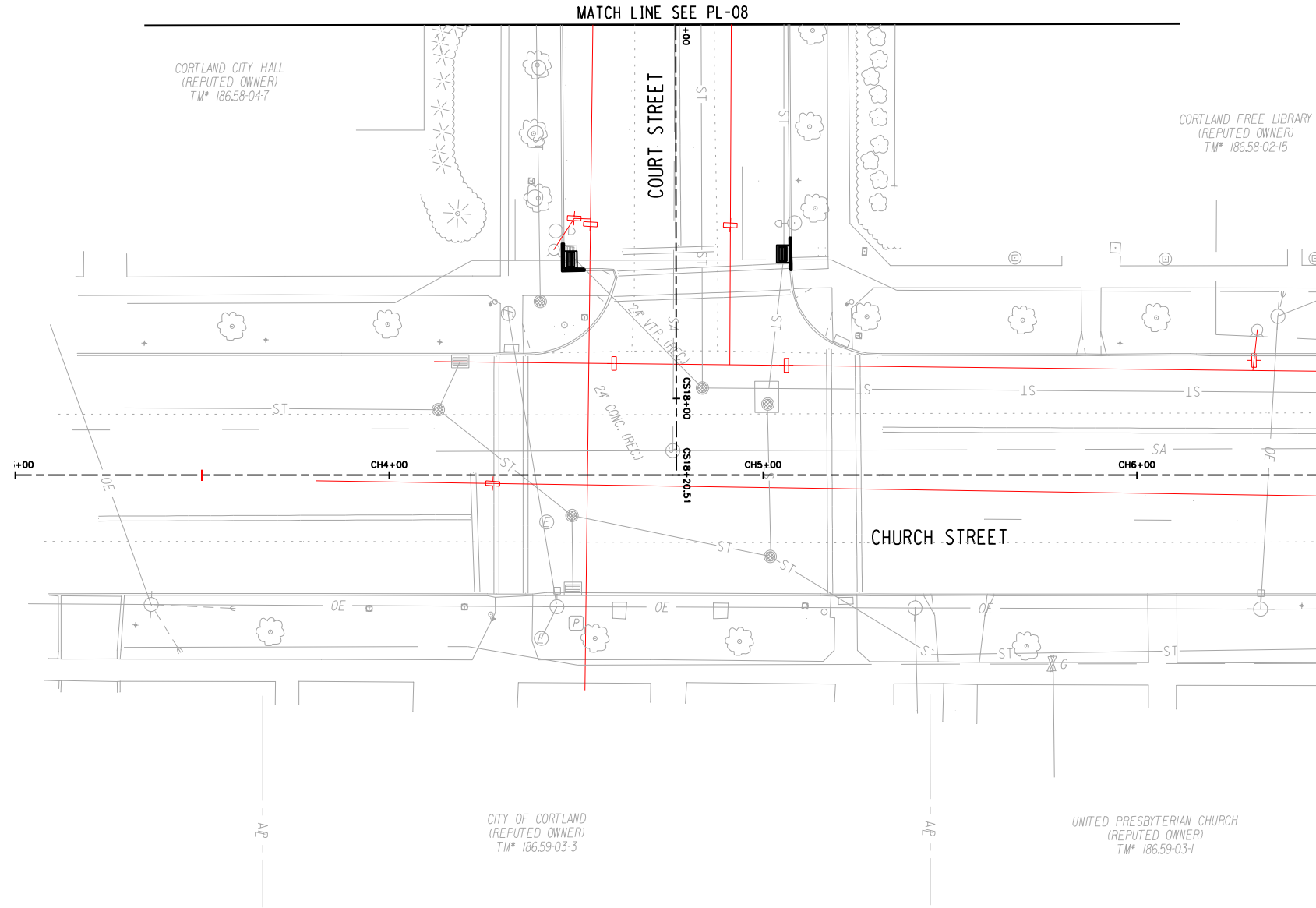
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Jaymes

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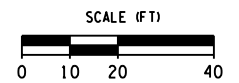
LEGEND


-  EXISTING WATER LINE
-  EXISTING WATER LINE TO BE ABANDONED
-  EXISTING WATER VALVE
-  EXISTING HYDRANT
-  NEW WATER LINE
-  NEW WATER VALVE
-  NEW HYDRANT
-  NEW REDUCER
-  TEMPORARY SAMPLING POINT
-  NEW END CAP

THIS SHEET SUPERSEDES SHEET 109A1













NO WATER LINE IMPROVEMENTS ON THIS SHEET



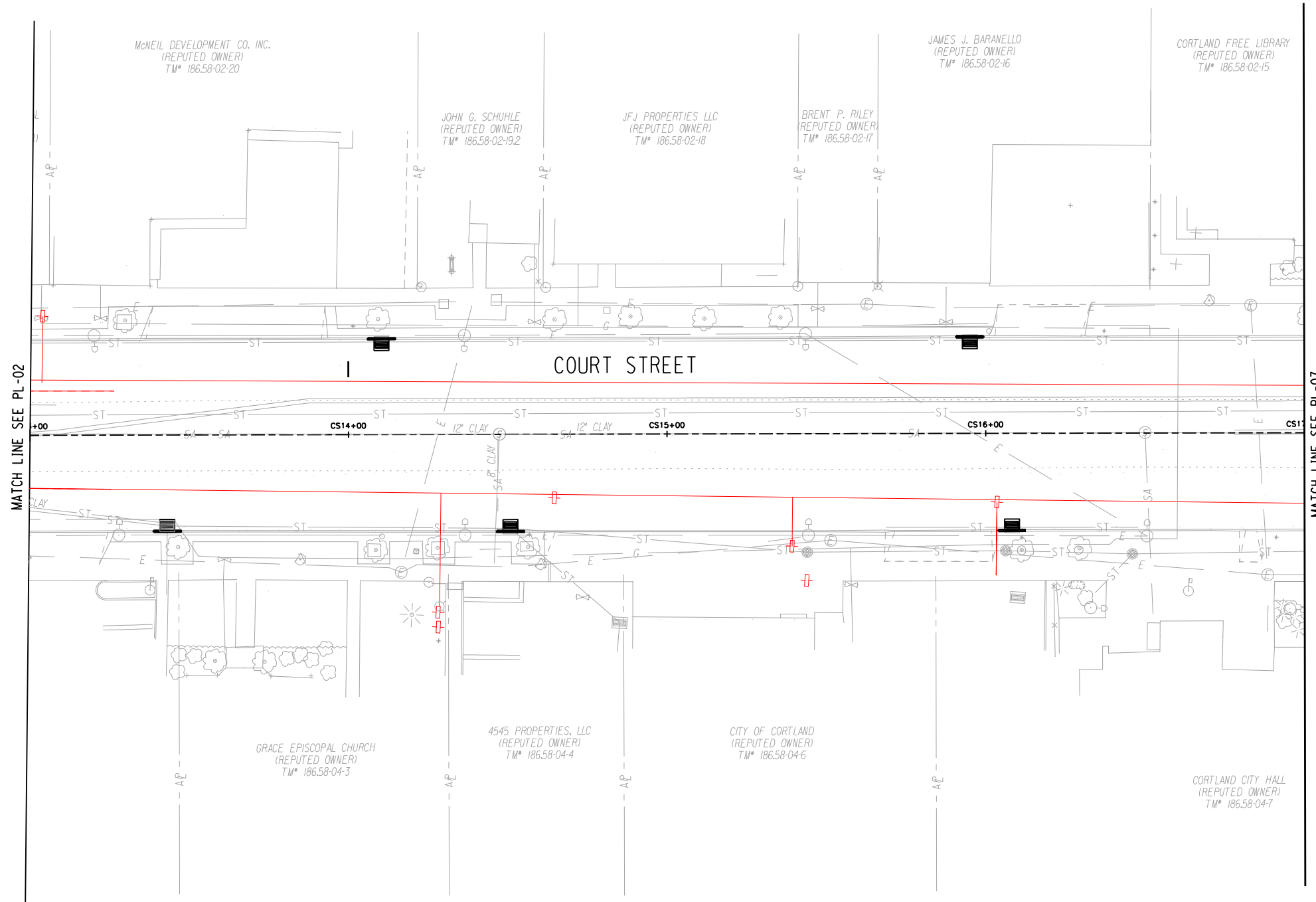
	<p><b>FISHER ASSOCIATES</b>          WWW.FISHERASSOC.COM</p>				
<p>PROJECT          MAIN STREET UTILITY IMPROVEMENT PROJECT          CITY OF CORTLAND          CORTLAND COUNTY, NEW YORK</p>			<p>TITLE OF DRAWING          WATERLINE DESIGN PLAN</p>		
<p>DATE          9/27/22</p>			<p>BY          BAK</p>		
<p>REVISED GENERAL NOTE 5</p>			<p>DATE          4/15/22</p>		
<p>REVISED GENERAL NOTE 5</p>			<p>DESCRIPTION</p>		
<p>REV</p>			<p>BY</p>		
<p>FA PROJECT NO. 200395          PROJECT MANAGER T. FAULKNER          DRAWN BY B. KNIGHTON          SCALE AS SHOWN          ISSUE DATE FEB. 2022</p>					
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DRAWING NO.  
**WPL-07**  
 SHEET 109F1 OF 171

LEGEND

-  EXISTING WATER LINE
-  EXISTING WATER LINE TO BE ABANDONED
-  EXISTING WATER VALVE
-  EXISTING HYDRANT
-  NEW WATER LINE
-  NEW WATER VALVE
-  NEW HYDRANT
-  NEW REDUCER
-  TEMPORARY SAMPLING POINT
-  NEW END CAP

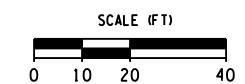
THIS SHEET SUPERSEDES SHEET 110A1




MATCH LINE SEE PL-02

MATCH LINE SEE PL-07

NO WATER LINE IMPROVEMENTS ON THIS SHEET

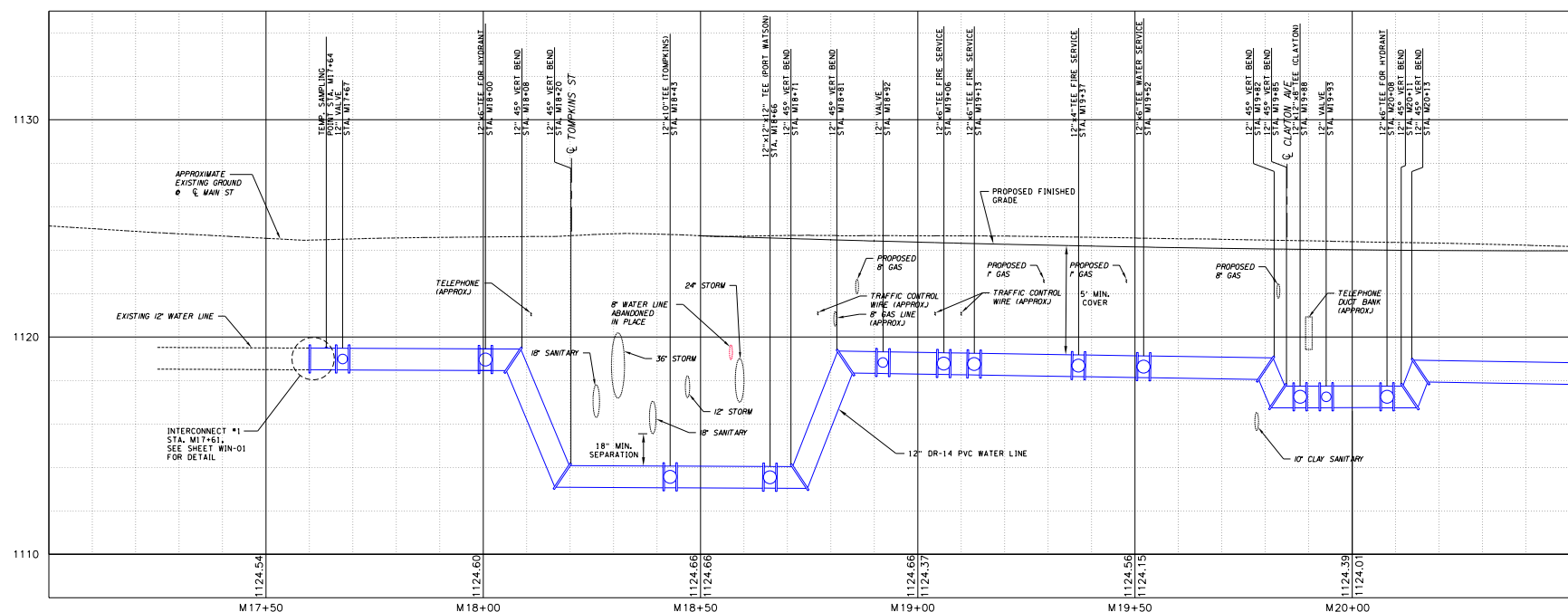


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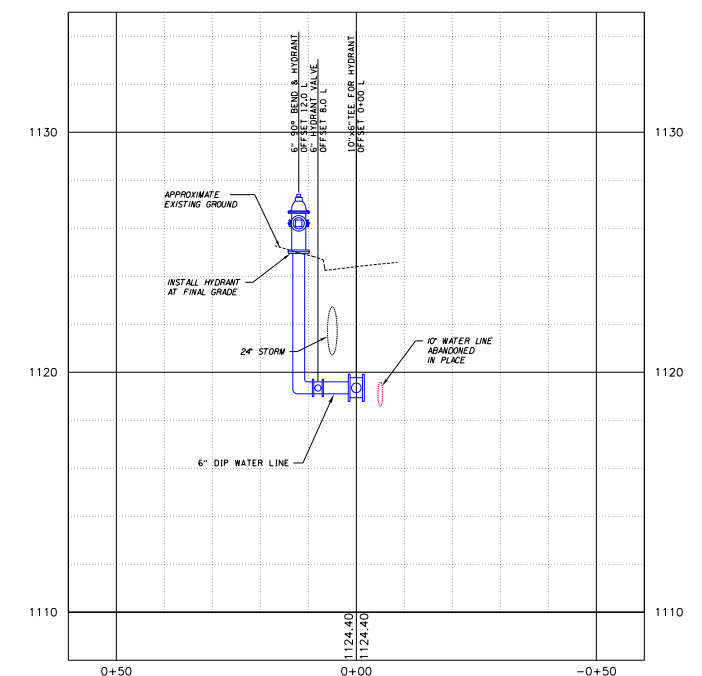
	<b>FISHER ASSOCIATES</b> WWW.FISHERASSOC.COM			PROJECT MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK			
FA PROJECT NO. 200395		PROJECT MANAGER T. FAULKNER		DRAWN BY B. KNIGHTON		SCALE AS SHOWN	
ISSUE DATE FEB. 2022		REV 1		DESCRIPTION REMOVED IMPROVEMENTS		DATE 9/27/22	
BY BAK		REV 5		DESCRIPTION REVISED GENERAL NOTE		DATE 4/15/22	
DATE 10/5/22		REV 7		DESCRIPTION COPYRIGHT © 2022 FISHER ASSOCIATES, P.E., U.S.A., D.P.C.		DATE 10/5/22	

DRAWING NO.  
**WPL-08**  
 SHEET 110F1 OF 171

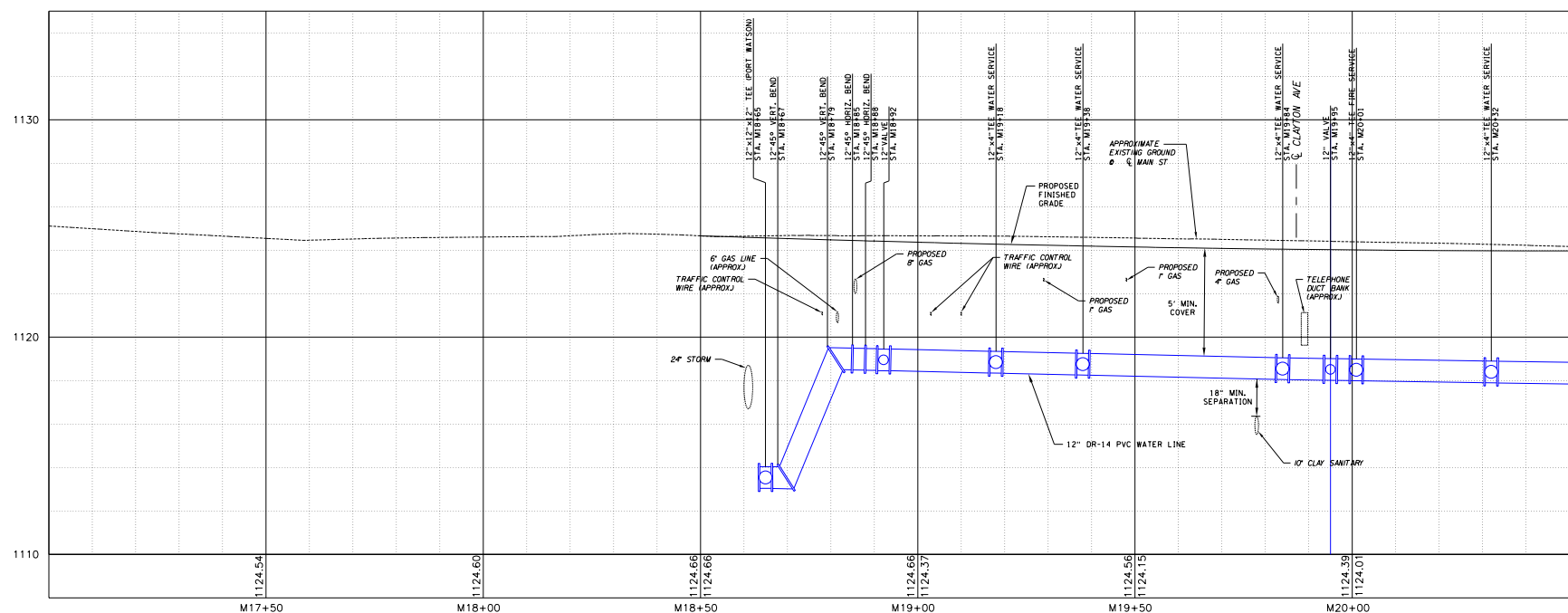
THIS SHEET SUPERSEDES SHEET 111



PROFILE M - MAIN ST - WEST SIDE SOUTH END  
 HORIZ: 1"=20'  
 VERT: 1"=4'



T7+37 NORTH SIDE NEW HYDRANT PROFILE  
 HORIZ: 1"=20'  
 VERT: 1"=4'



PROFILE M - MAIN ST - EAST SIDE SOUTH END  
 HORIZ: 1"=20'  
 VERT: 1"=4'

NOTES:  
 1. ALL PROPOSED AND EXISTING WATER LINE PIPES AND FITTINGS SHALL BE RESTRAINED AS REQUIRED.  
 SEE TABLE ON SHEET 663-02 FOR SPECIFIC LENGTHS.

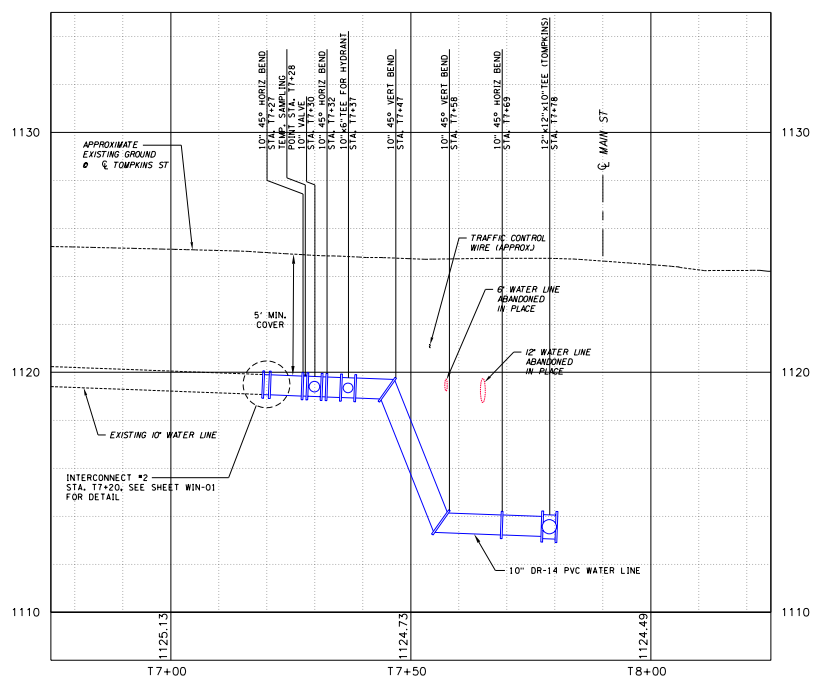
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 DGN#SYTIME0123456 \*TIME\*  
 DGN#USERNAME

PROJECT MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK		TITLE OF DRAWING WATER LINE DESIGN PROFILES	
DRAWING NO. <b>WPR-01A</b>		SHEET 111F1 OF 171	
PROJECT NO. 200395		ISSUE DATE FEB. 2022	
PROJECT MANAGER T. FAULKNER		SCALE AS SHOWN	
DRAWN BY B. KNIGHTON		DATE FEB. 2022	
COPYRIGHT © 2022 FISHER ASSOCIATES P.E., L.S., L.A., D.P.C.		DESCRIPTION WATERMAIN REDESIGN	
New York State Education Law Section 1105.1 requires that the design of any structure, unless by the licensed professional engineer or land surveyor, to alter on them in any way, or the design of any structure, unless by the licensed professional engineer or land surveyor, to alter on them in any way, or the design of any structure, unless by the licensed professional engineer or land surveyor, to alter on them in any way, or the design of any structure, unless by the licensed professional engineer or land surveyor, to alter on them in any way.		REV 1 WATERMAIN REDESIGN 2 3 4 5 6 7	
STATE OF NEW YORK ENGINEER EDWARD W. KOSTOWNIK 081517 LICENSED PROFESSIONAL ENGINEER		BAK DATE 9/30/22	

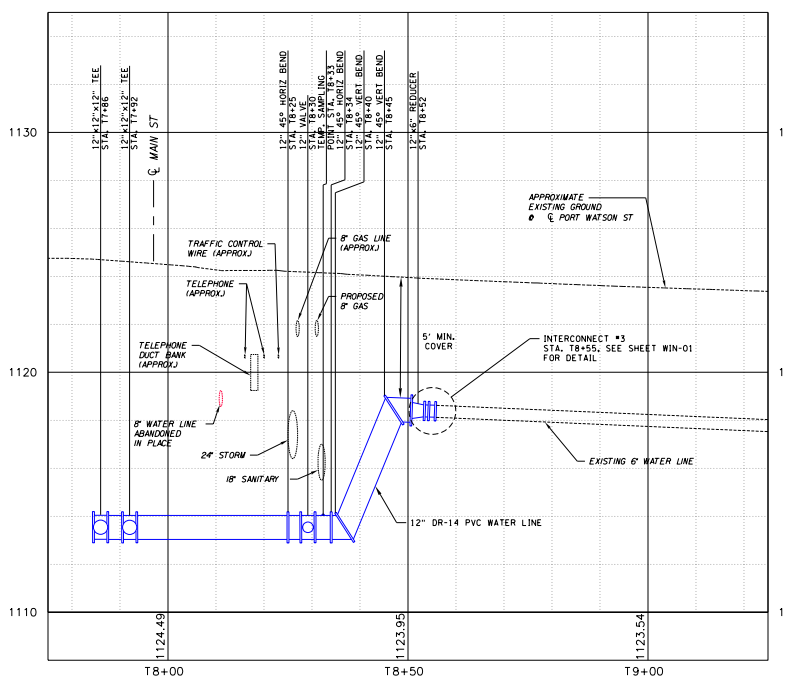




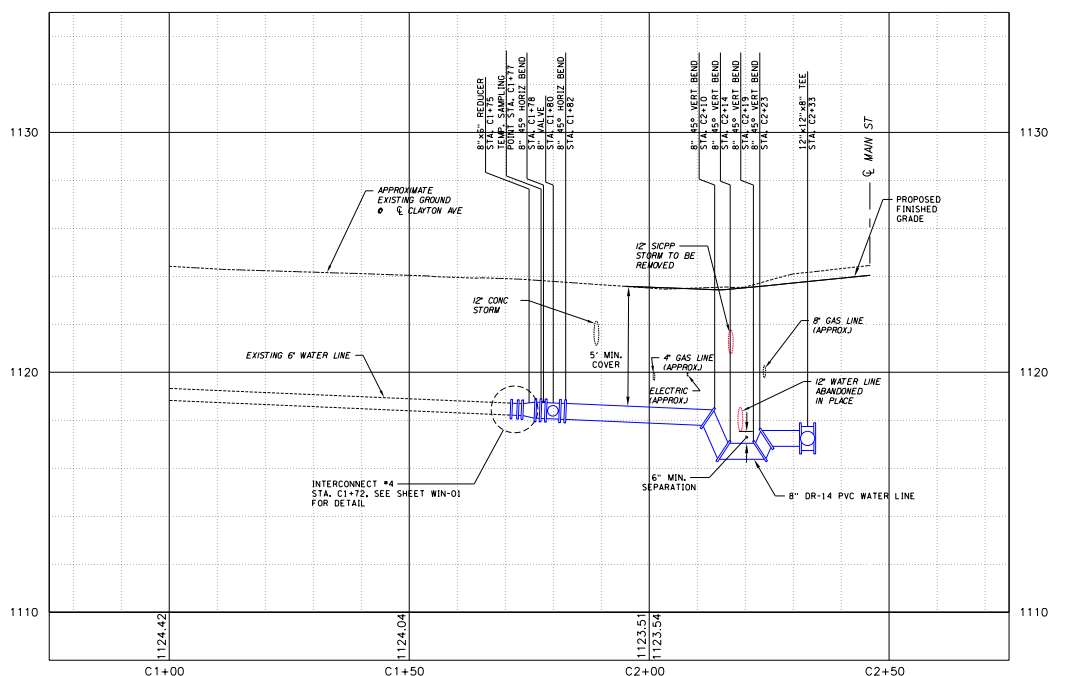
THIS SHEET SUPERSEDES SHEET 112



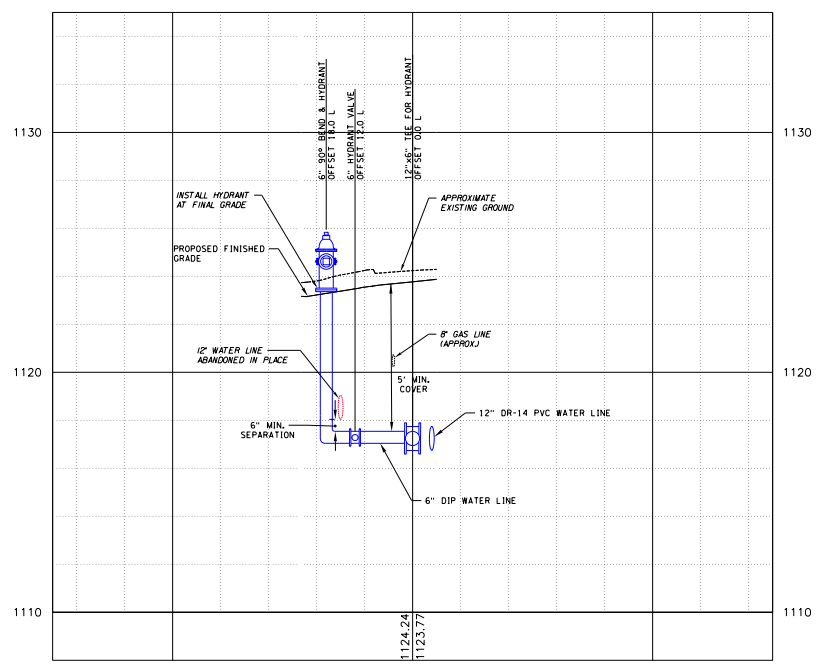
PROFILE T - TOMPKINS ST  
HORIZ: 1"=20'  
VERT: 1"=4'



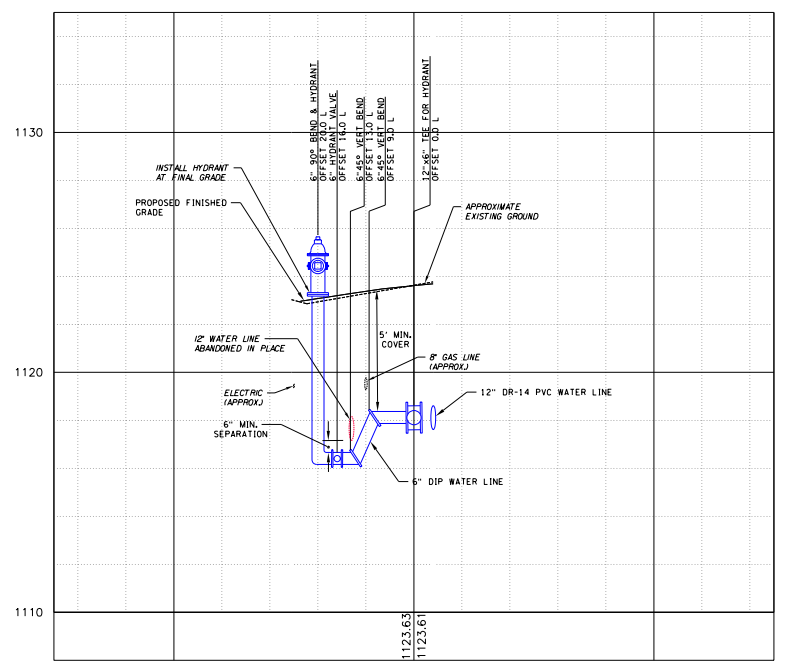
PROFILE T - PORT WATSON ST  
HORIZ: 1"=20'  
VERT: 1"=4'



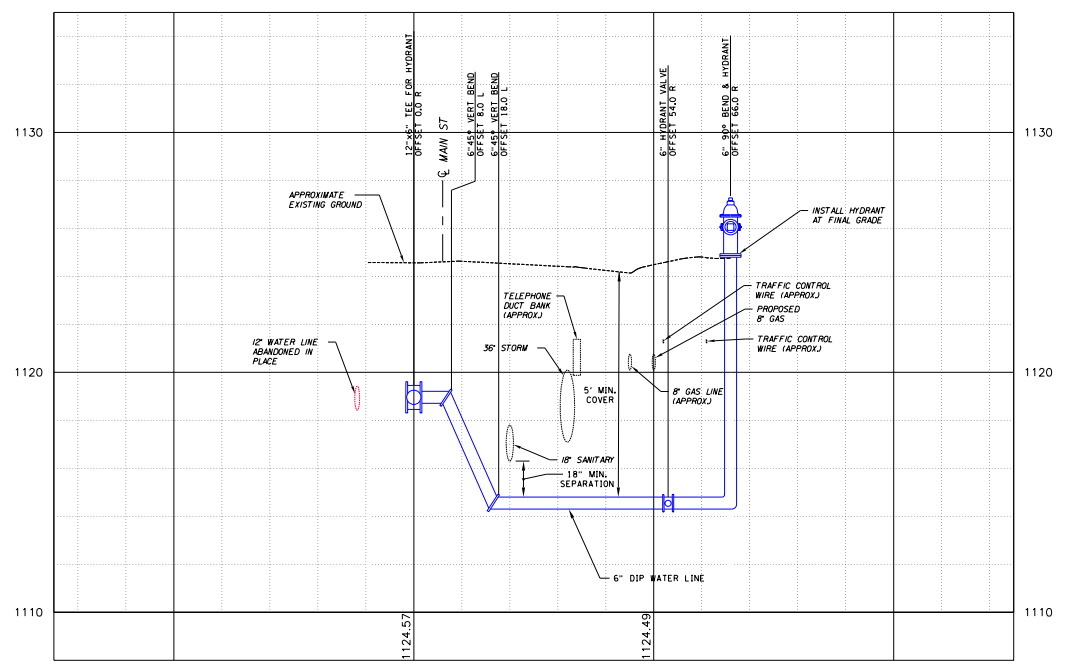
PROFILE C - CLAYTON AVE  
HORIZ: 1"=20'  
VERT: 1"=4'



M 20+08 WEST SIDE 6 in HYDRANT  
HORIZ: 1"=20'  
VERT: 1"=4'



M 21+18 WEST SIDE 6 in HYDRANT  
HORIZ: 1"=20'  
VERT: 1"=4'



M 18+01 EAST SIDE NEW HYDRANT PROFILE  
HORIZ: 1"=20'  
VERT: 1"=4'

NOTES:  
1. ALL PROPOSED AND EXISTING WATER LINE PIPES AND FITTINGS SHALL BE RESTRAINED AS REQUIRED. SEE TABLE ON SHEET 663-02 FOR SPECIFIC LENGTHS.

DGN#SPEC01234567890123456789012345678901234  
 DGN#SYTIME0123456 \*TIME#  
 DGN#USER#NAME

REV	DESCRIPTION	DATE	BY
1	WATERMAIN REDESIGN	9/30/22	BAK
2			
3			
4			
5			
6			
7			

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200395  
PROJECT MANAGER  
T. FAULKNER  
DRAWN BY  
B. KNIGHTON  
SCALE  
AS SHOWN  
ISSUE DATE  
FEB. 2022

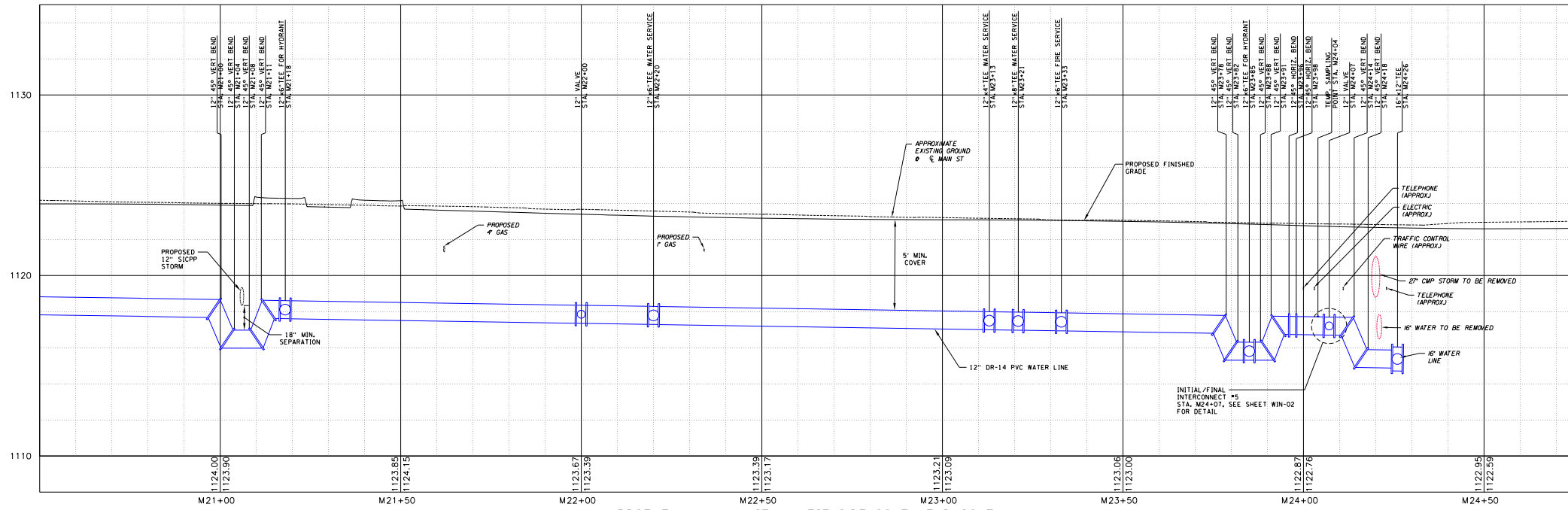


PROJECT  
MAIN STREET UTILITY  
IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK

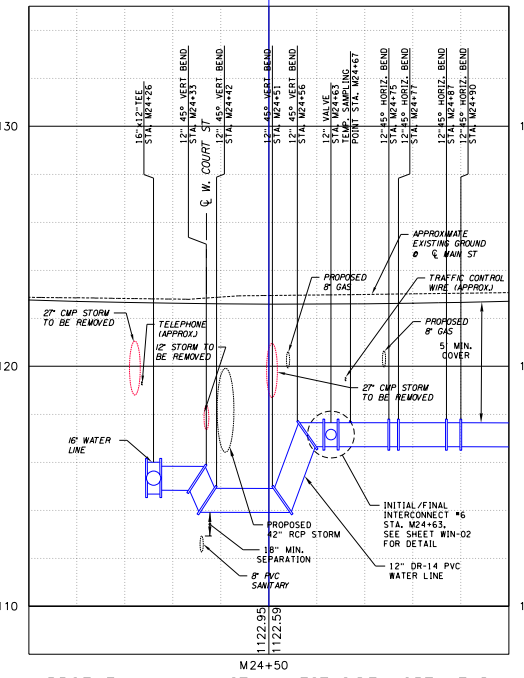
TITLE OF DRAWING  
WATER LINE DESIGN PROFILES

DRAWING NO.  
**WPR-01B**  
SHEET 112F1 OF 171

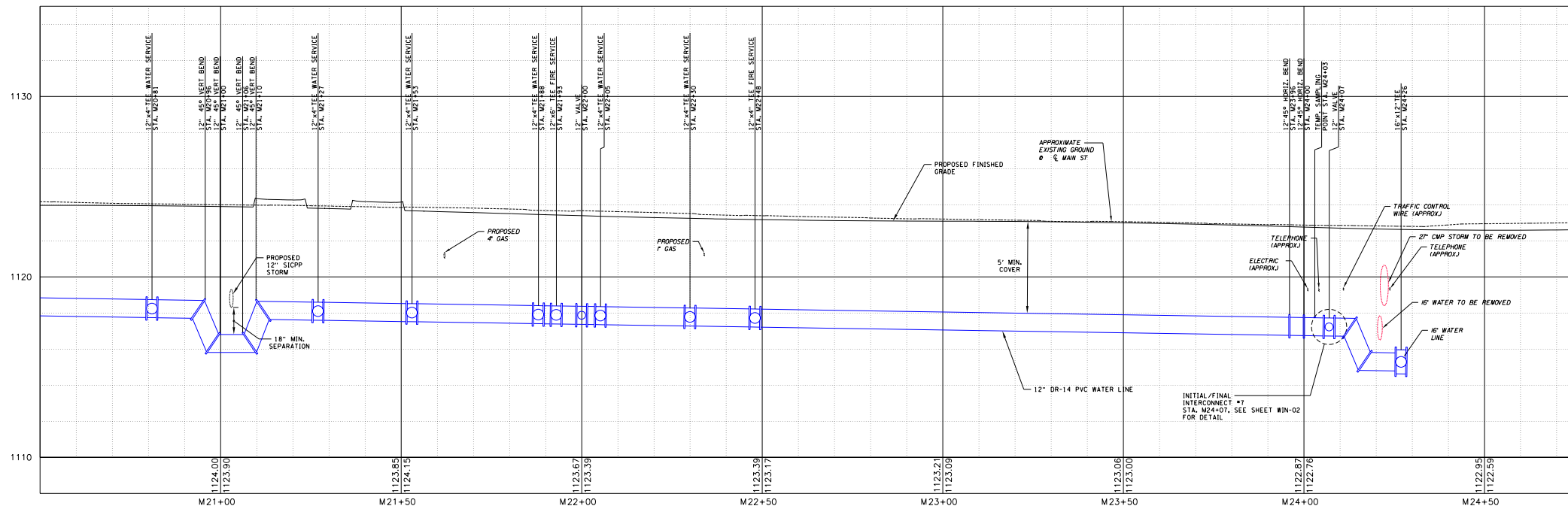
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 DGN#SYTIME0123456 \*TIME\*  
 DGN#USERNAME



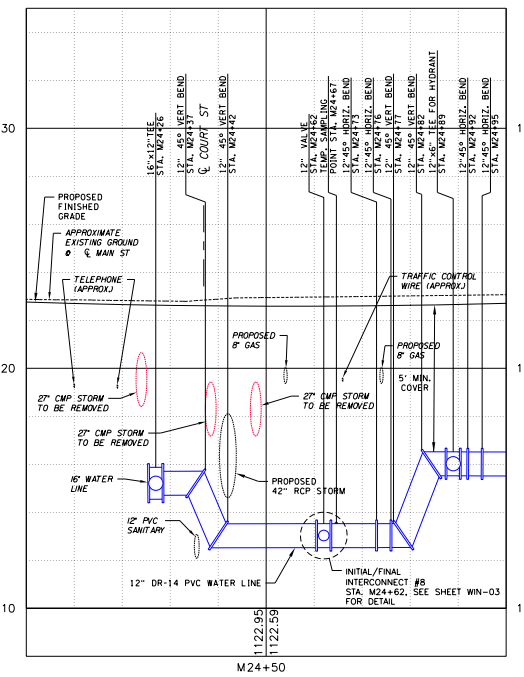
PROFILE M - MAIN ST - WEST SIDE SOUTH END CONT.  
 HORIZ: 1"=20'  
 VERT: 1"=4'



PROFILE M - MAIN ST - WEST SIDE NORTH END  
 HORIZ: 1"=20'  
 VERT: 1"=4'



PROFILE M - MAIN ST - EAST SIDE SOUTH END CONT.  
 HORIZ: 1"=20'  
 VERT: 1"=4'



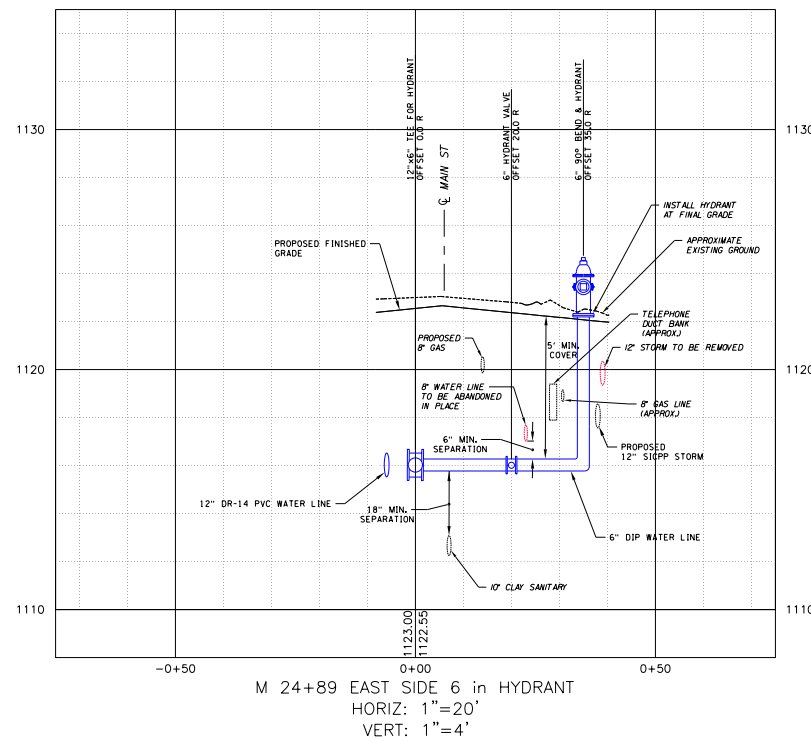
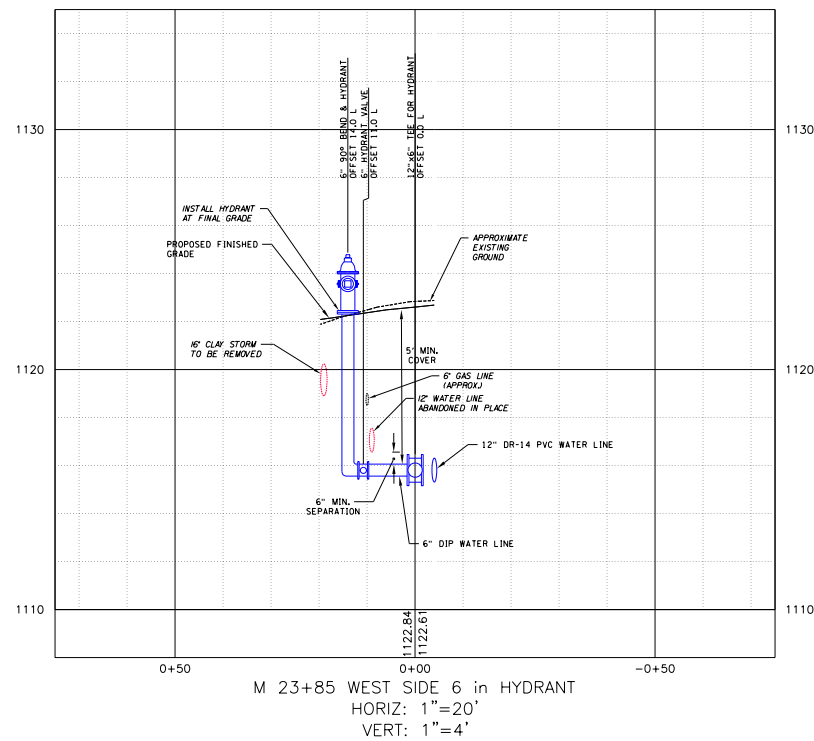
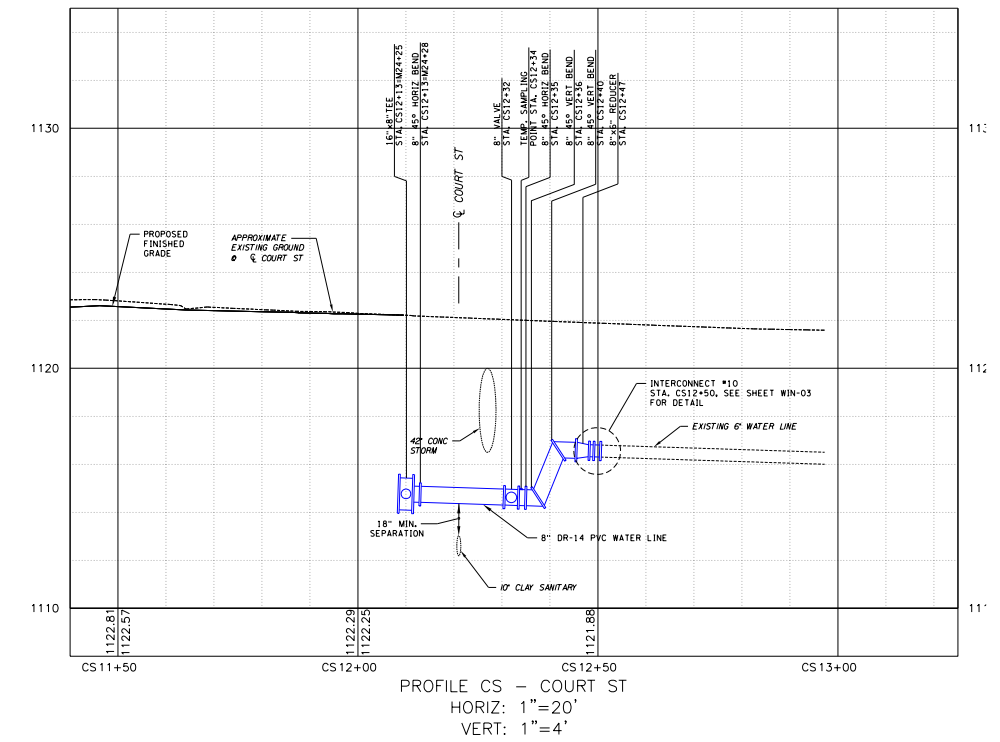
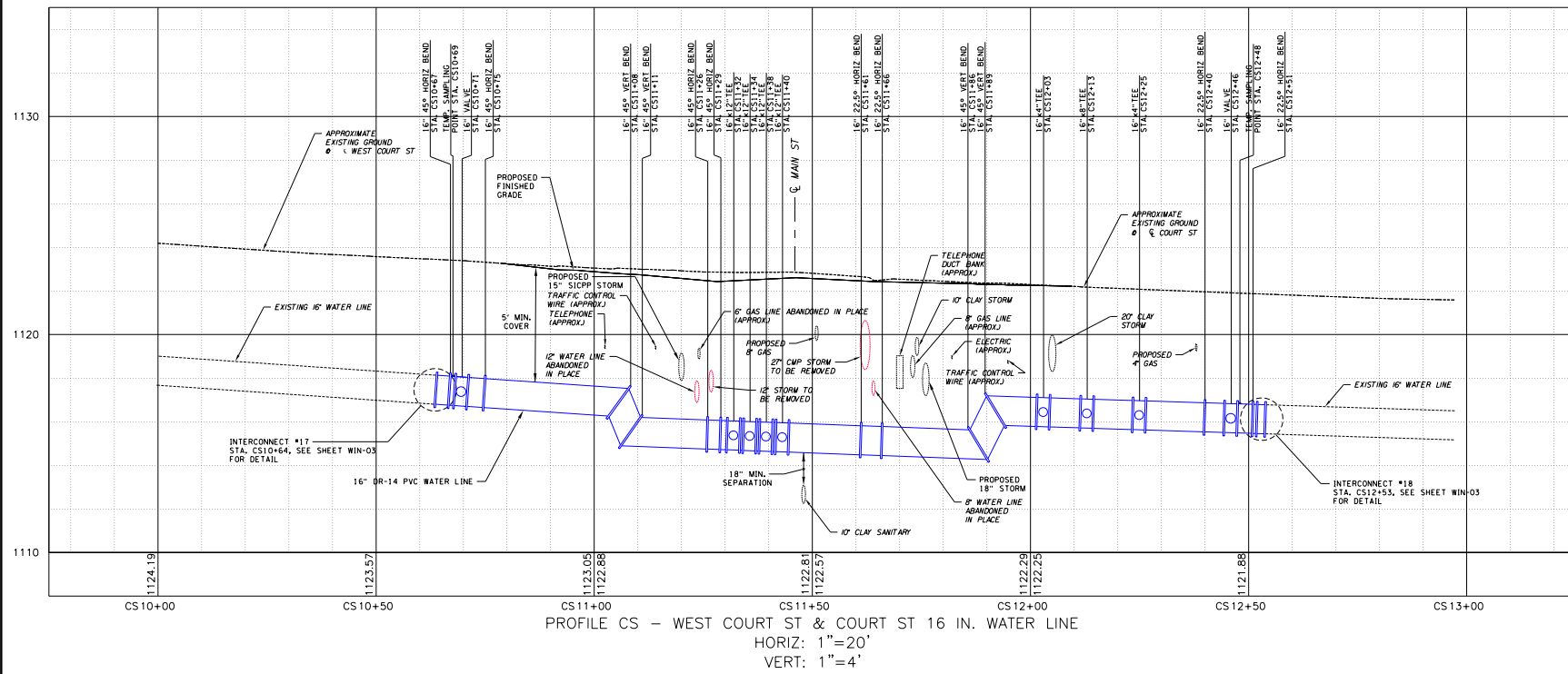
PROFILE M - MAIN ST - EAST SIDE NORTH END  
 HORIZ: 1"=20'  
 VERT: 1"=4'

NOTES:  
 1. ALL PROPOSED AND EXISTING WATER LINE PIPES AND FITTINGS SHALL BE RESTRAINED AS REQUIRED.  
 SEE TABLE ON SHEET 663-02 FOR SPECIFIC LENGTHS.

FIELD CHANGE SHEET  
 THIS SHEET SUPERSEDES SHEET 113F1

PROJECT MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK		TITLE OF DRAWING WATER LINE DESIGN PROFILES	
DRAWING NO. <b>WPR-02A</b>		SHEET 113F2 OF 171	
F.A. PROJECT NO. 200395 PROJECT MANAGER T. FAULKNER DRAWN BY B. KNIGHTON SCALE AS SHOWN		ISSUE DATE FEB. 2022	
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REV		DESCRIPTION	
1	REMOVED STORM CROSSING	12/15/22	JNT
2	WATERMAIN REDESIGN	9/30/22	BAK
3			
4			
5			
6			
7			

THIS SHEET SUPERSEDES SHEET 114



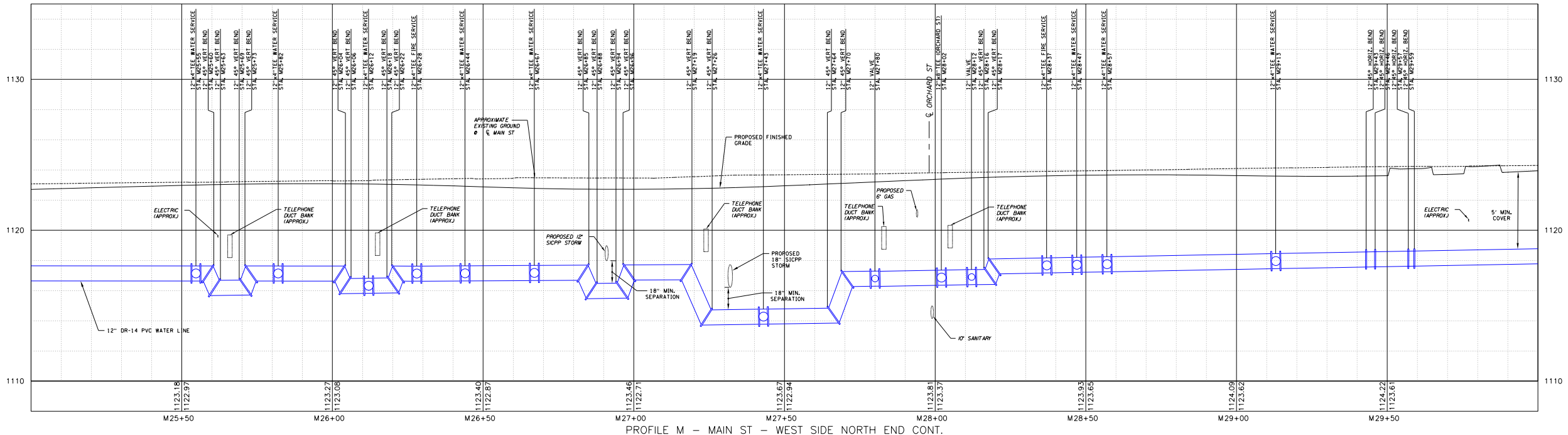
NOTES:  
1. ALL PROPOSED AND EXISTING WATER LINE PIPES AND FITTINGS SHALL BE RESTRAINED AS REQUIRED. SEE TABLE ON SHEET 663-02 FOR SPECIFIC LENGTHS.

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DGN#SYTIME0123456 \*TIME#  
DGN#USERNAME

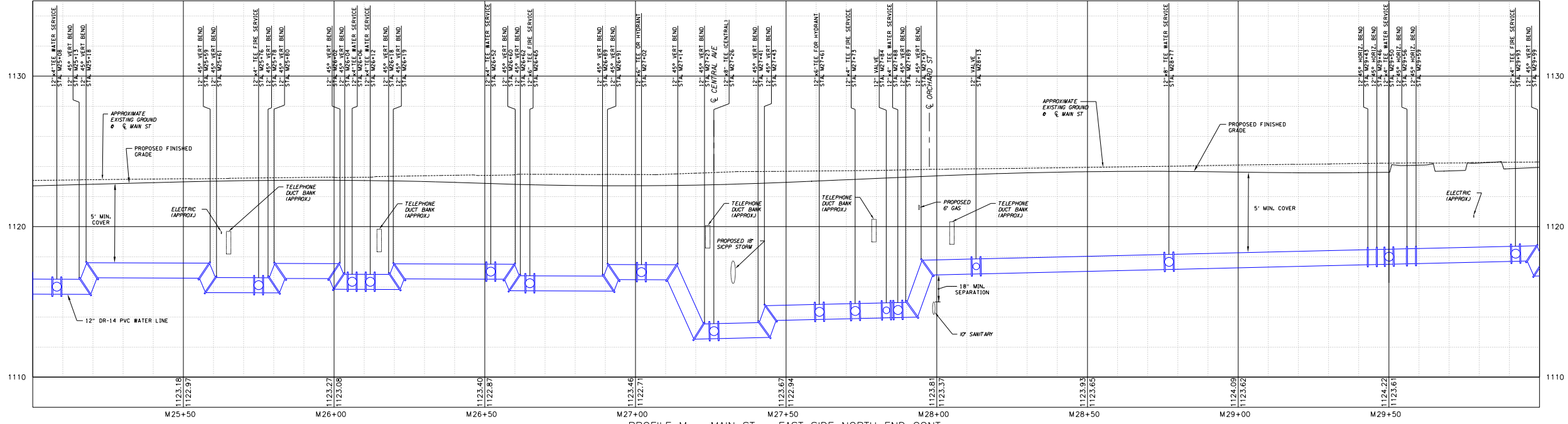
PROJECT NO. 200395 PROJECT MANAGER T. FAULKNER DRAWN BY B. KNIGHTON SCALE AS SHOWN ISSUE DATE FEB. 2022	COPYRIGHT © 2022 FISHER ASSOCIATES, P.E., L.S., L.A., D.P.C. New York State Education Law Section 1104.1 requires that this drawing be prepared by a licensed professional engineer or land surveyor, to alter in any way, the drawing, or to be used for any other purpose, without the written consent of the engineer or land surveyor. The violation of this law is a misdemeanor.
PROJECT MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK	TITLE OF DRAWING WATER LINE DESIGN PROFILES
DRAWING NO. <b>WPR-02B</b>	SHEET 114F1 OF 171
REV 1 WATERMAIN REDESIGN 2 3 4 5 6 7	DATE 9/30/22 BY BAK

DGN#SPEC01234567890123456789012345678901234  
 DGN#SYTIME0123456 \*TIME\*  
 DGN#USERNAME

FIELD CHANGE SHEET  
 THIS SHEET SUPERSEDES SHEET 115F1



PROFILE M - MAIN ST - WEST SIDE NORTH END CONT.  
 HORIZ: 1"=20'  
 VERT: 1"=4'

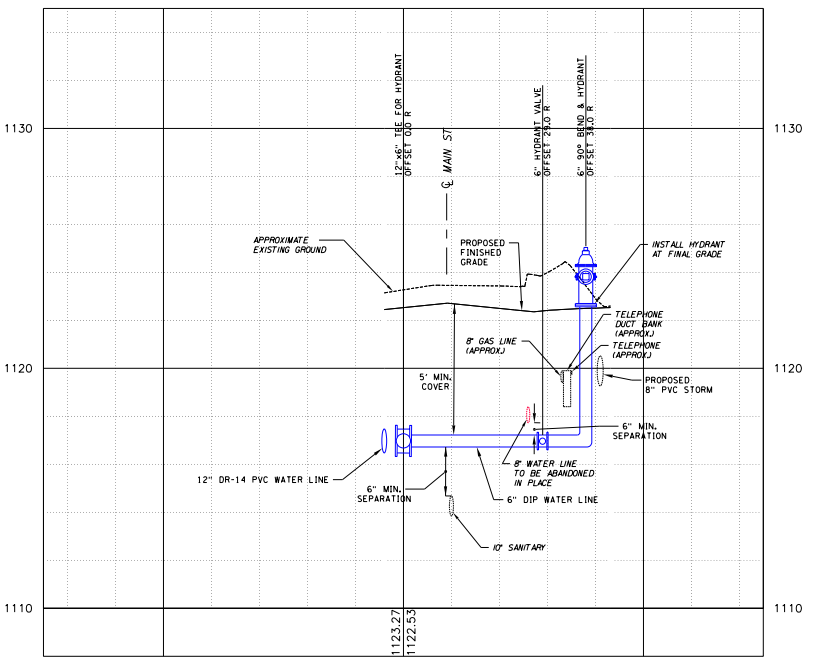
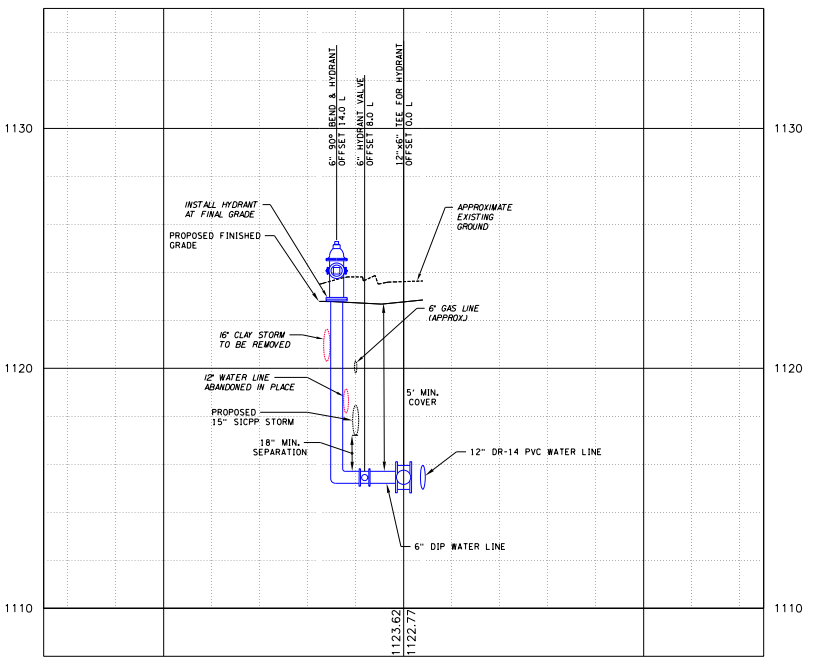
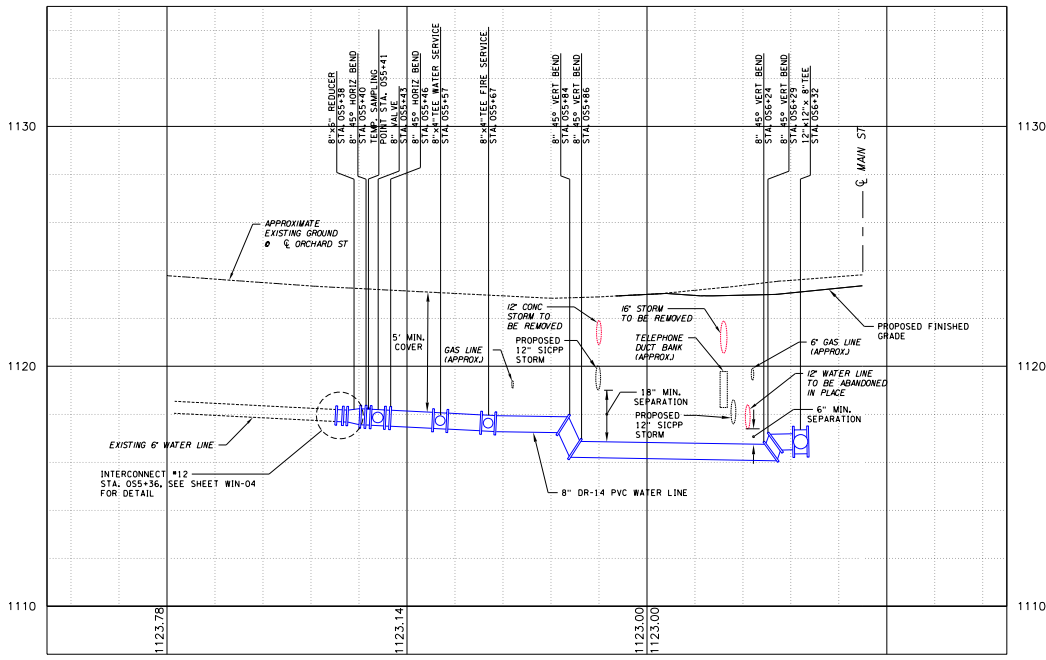
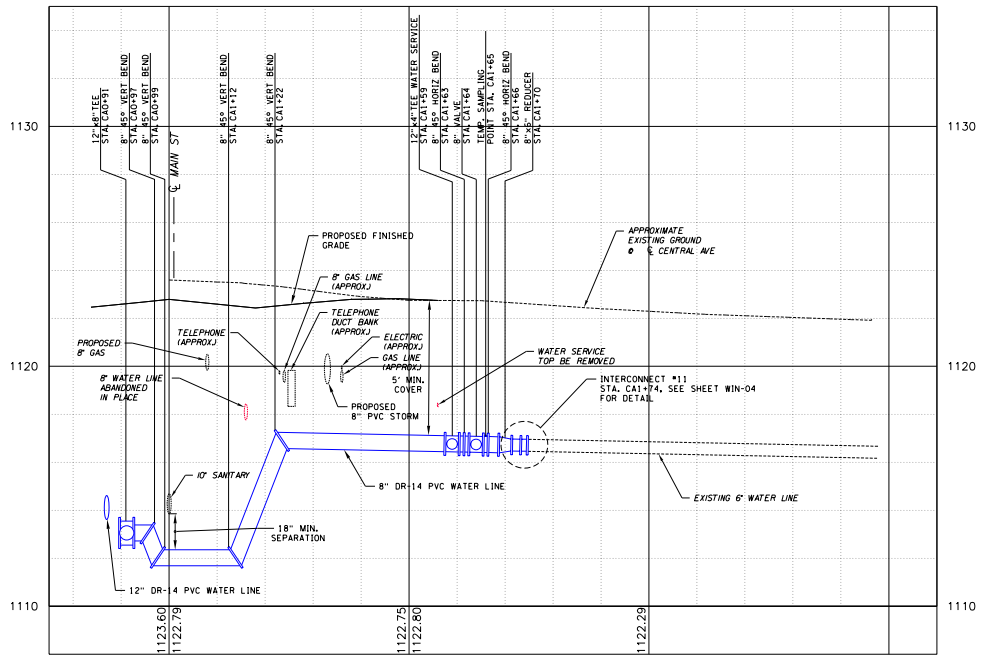


PROFILE M - MAIN ST - EAST SIDE NORTH END CONT.  
 HORIZ: 1"=20'  
 VERT: 1"=4'

NOTES:  
 1. ALL PROPOSED AND EXISTING WATER LINE PIPES AND FITTINGS SHALL BE RESTRAINED AS REQUIRED.  
 SEE TABLE ON SHEET 663-02 FOR SPECIFIC LENGTHS.

<p><b>FISHER ASSOCIATES</b>          WWW.FISHERASSOC.COM</p>	
<p>PROJECT          MAIN STREET UTILITY          IMPROVEMENT PROJECT          CITY OF CORTLAND          CORTLAND COUNTY, NEW YORK</p>	<p>TITLE OF DRAWING          WATER LINE DESIGN PROFILES</p>
<p>DRAWING NO.  <b>WPR-03A</b></p>	<p>SHEET 115F2 OF 171</p>
<p>EA PROJECT NO.          200395          PROJECT MANAGER          T. FAULKNER          DRAWN BY          B. KNIGHTON          SCALE          AS SHOWN</p>	<p>ISSUE DATE          FEB. 2022</p>
<p>COPYRIGHT © 2022          FISHER ASSOCIATES,          P.E., L.S., L.A., D.P.C.          New York State Education Law Section          115.6(3) requires that the undersigned          engineer or architect, in order to seal,          sign, or issue a professional engineering or          architectural drawing, must be duly          licensed, registered, or certified in the          profession, and a specific description          of the profession.</p>	<p>REMOVED STORM CROSSING 12/15/22 JNT          WATERMAIN REDESIGN 9/30/22 BAK          DATE DATE BY</p>

THIS SHEET SUPERSEDES SHEET 116



NOTES:  
 1. ALL PROPOSED AND EXISTING WATER LINE PIPES AND FITTINGS SHALL BE RESTRAINED AS REQUIRED. SEE TABLE ON SHEET 663-02 FOR SPECIFIC LENGTHS.

REV	DESCRIPTION	DATE	BY
1	WATERMAIN REDESIGN	9/30/22	BAK
2			
3			
4			
5			
6			
7			

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EA PROJECT NO.  
 200395  
 PROJECT MANAGER  
 T. FAULKNER  
 DRAWN BY  
 B. KNIGHTON  
 SCALE  
 AS SHOWN  
 ISSUE DATE  
 FEB. 2022

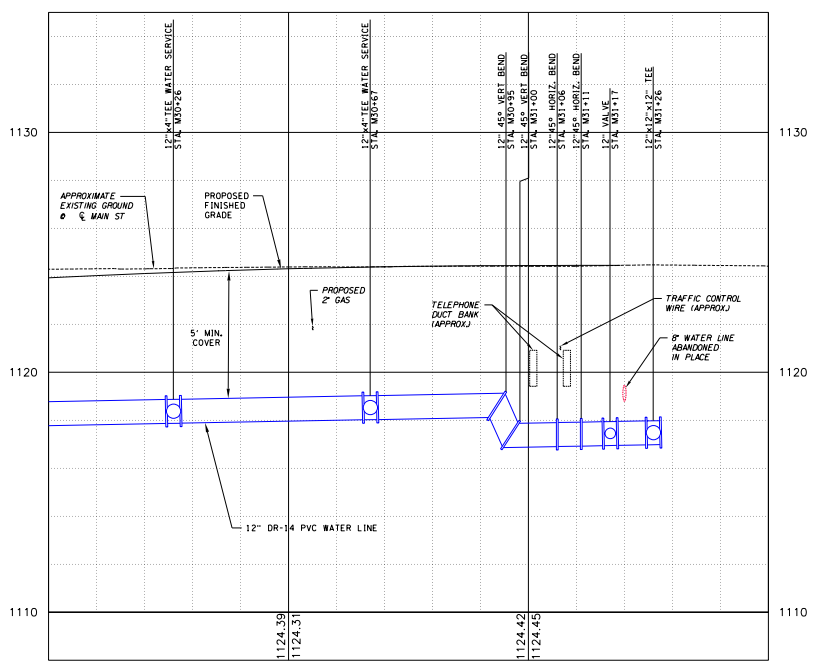


PROJECT  
 MAIN STREET UTILITY  
 IMPROVEMENT PROJECT  
 CITY OF CORTLAND  
 CORTLAND COUNTY, NEW YORK  
 TITLE OF DRAWING  
 WATER LINE DESIGN PROFILES

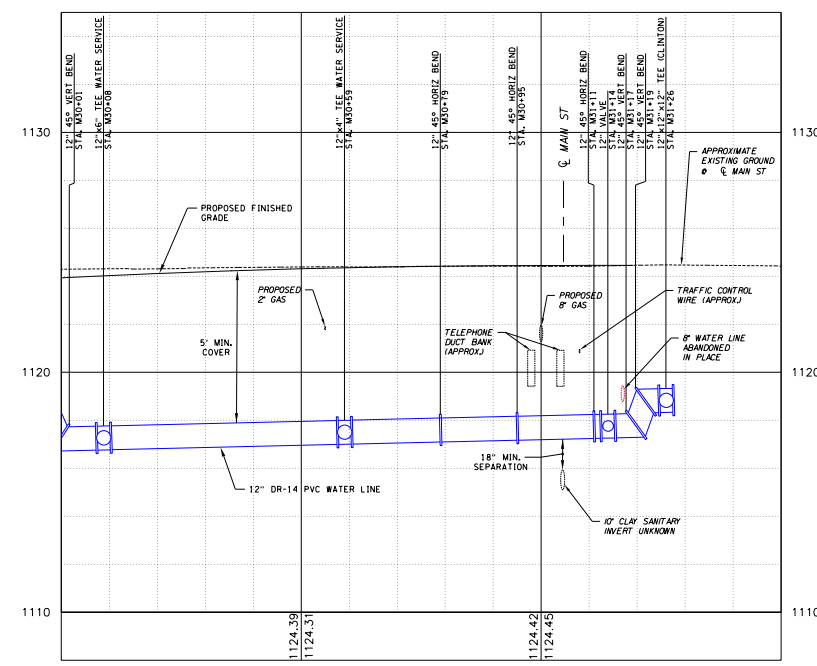
DRAWING NO.  
**WPR-03B**  
 SHEET 116F1 OF 171

DGN#SPEC01234567890123456789012345678901234  
 DGN#SYTIME0123456 \*TIME\*  
 DGN#USERNAME

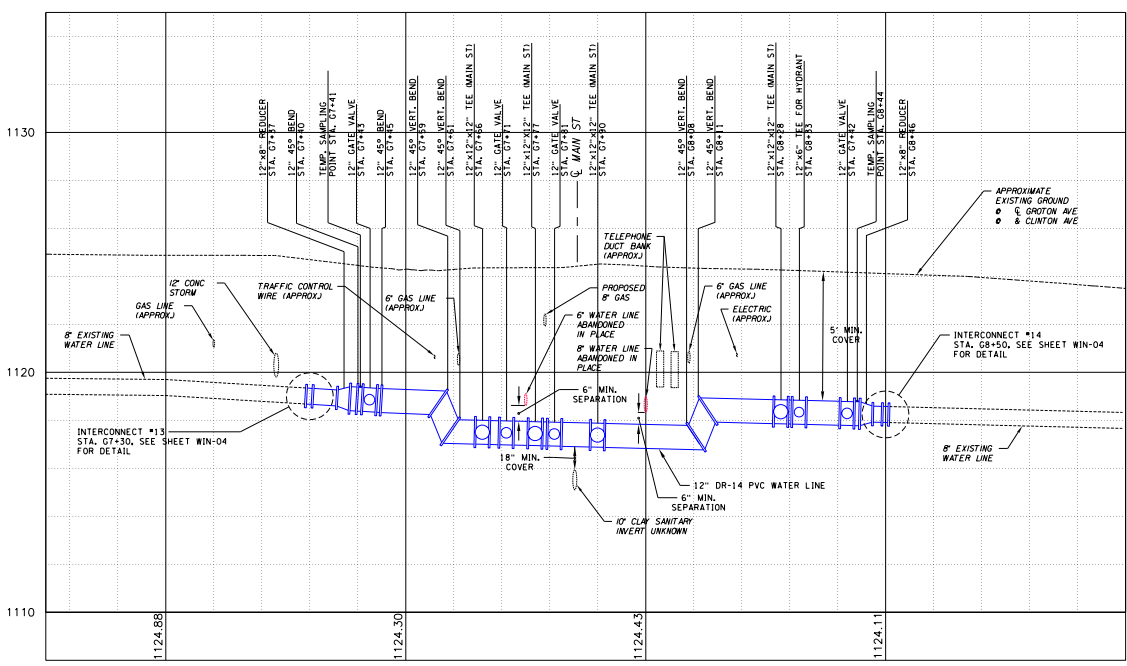
THIS SHEET SUPERSEDES SHEET 117



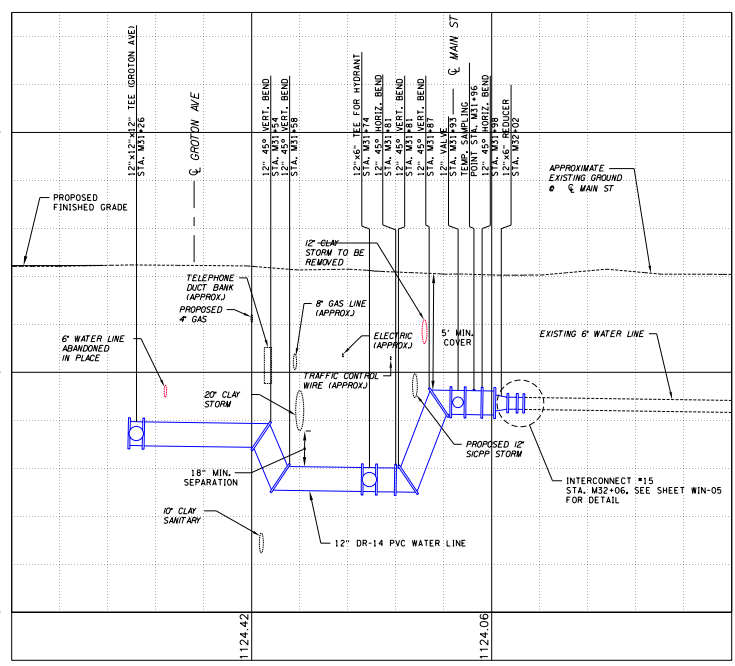
PROFILE M - MAIN ST - WEST SIDE NORTH (CONT.)  
 HORIZ: 1"=20'  
 VERT: 1"=4'



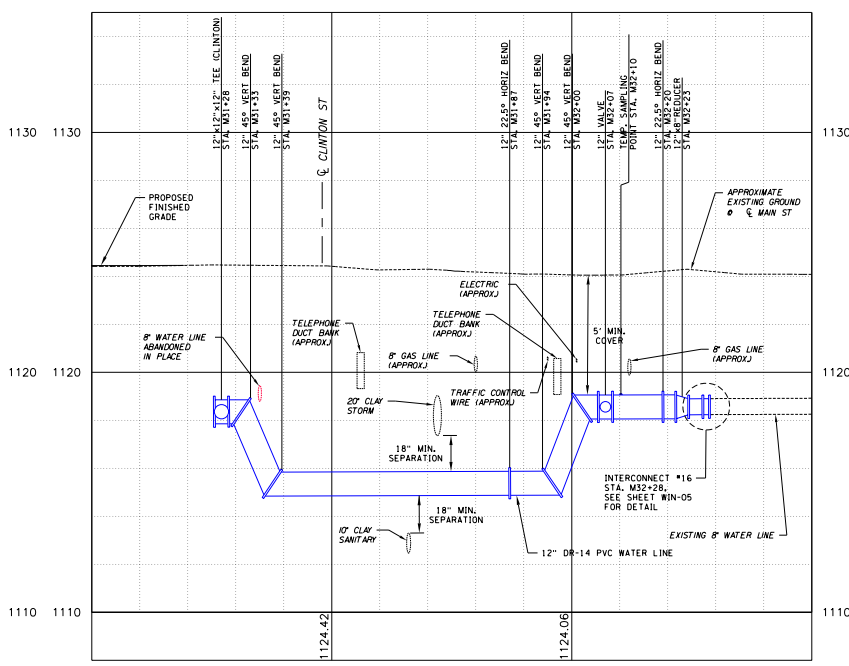
PROFILE M - MAIN ST - EAST SIDE NORTH (CONT.)  
 HORIZ: 1"=20'  
 VERT: 1"=4'



PROFILE G - GROTON AVE & CLINTON AVE  
 HORIZ: 1"=20'  
 VERT: 1"=4'



PROFILE M - WEST SIDE MAIN ST NORTH OF GROTON AVE  
 HORIZ: 1"=20'  
 VERT: 1"=4'



PROFILE M - EAST SIDE MAIN ST NORTH OF CLINTON AVE  
 HORIZ: 1"=20'  
 VERT: 1"=4'

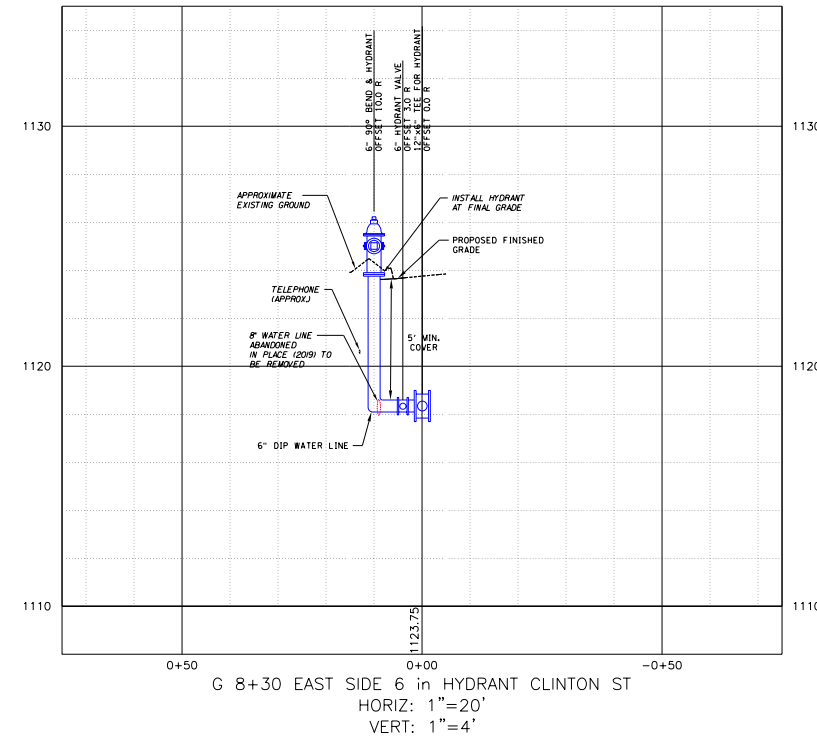
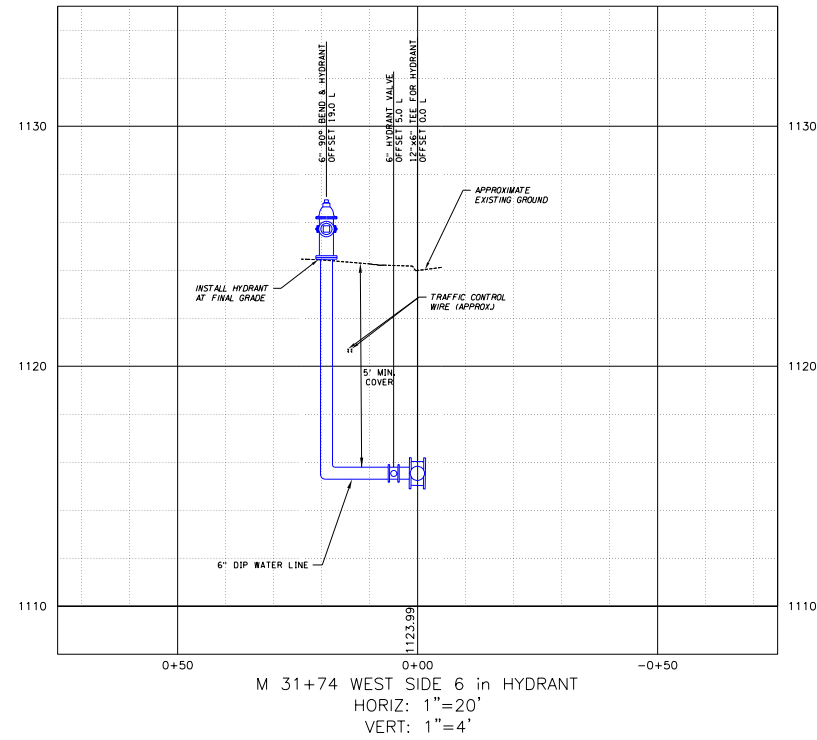
NOTES:  
 1. ALL PROPOSED AND EXISTING WATER LINE PIPES AND FITTINGS SHALL BE RESTRAINED AS REQUIRED. SEE TABLE ON SHEET 663-02 FOR SPECIFIC LENGTHS.

DGN#SPEC01234567890123456789012345678901234  
 DGN#SYTIME0123456 \*TIME#  
 DGN#USER#NAME

 WWW.FISHERASSOC.COM	PROJECT MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK		TITLE OF DRAWING WATER LINE DESIGN PROFILES		DRAWING NO. <b>WPR-04A</b>	SHEET 117F1 OF 171	
PROJECT NO. 200395 PROJECT MANAGER T. FAULKNER DRAWN BY B. KNIGHTON SCALE AS SHOWN	ISSUE DATE FEB. 2022		DESCRIPTION WATERMAIN REDESIGN		DATE 9/30/22	BAK BY	REV 1 2 3 4 5 6 7
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DGN#SPEC01234567890123456789012345678901234  
 DGN#SYTIME0123456 \*TIME\*  
 DGN#USERNAME

THIS SHEET SUPERSEDES SHEET 118

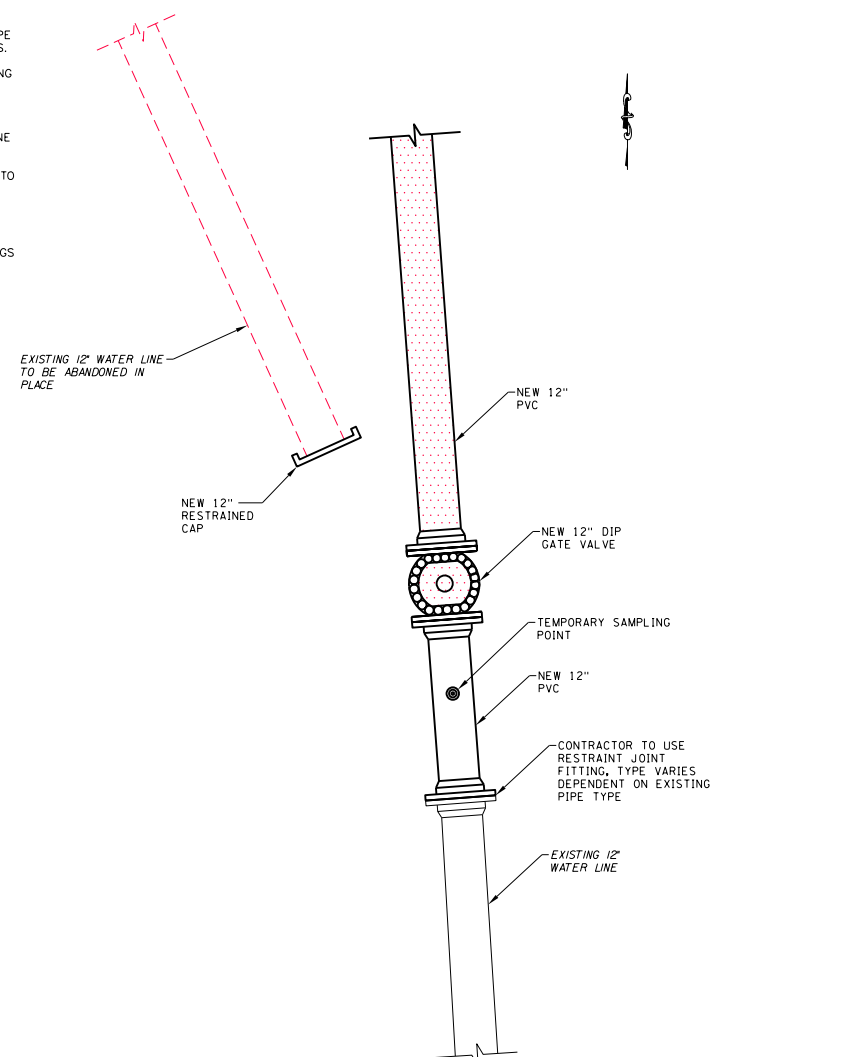


NOTES:  
 1. ALL PROPOSED AND EXISTING WATER LINE PIPES AND FITTINGS SHALL BE RESTRAINED AS REQUIRED.  
 SEE TABLE ON SHEET 663-02 FOR SPECIFIC LENGTHS.

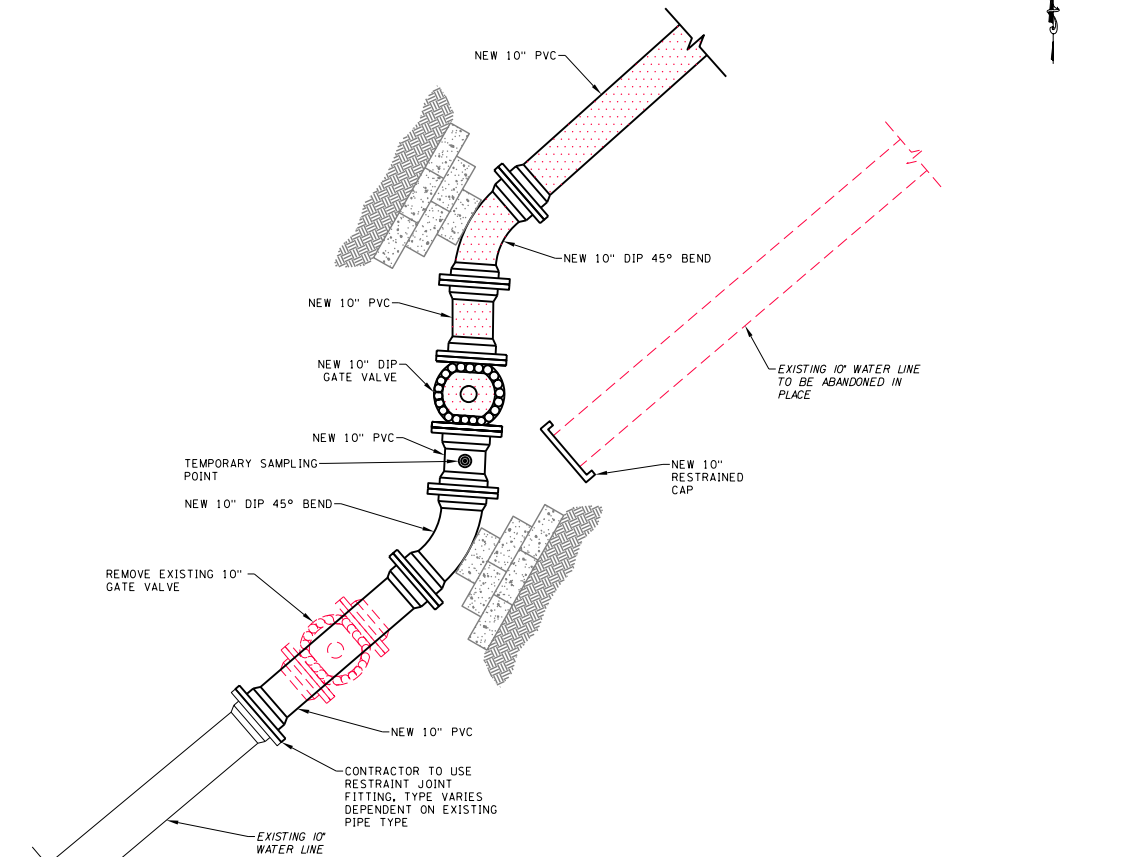
PROJECT MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK		TITLE OF DRAWING WATER LINE DESIGN PROFILES	
DRAWING NO. <b>WPR-04B</b>		SHEET 118F1 OF 171	
PROJECT NO. 200395		PROJECT MANAGER T. FAULKNER	
DRAWN BY B. KNIGHTON		SCALE AS SHOWN	
ISSUE DATE FEB. 2022		REV 1 WATERMAIN REDESIGN 2 3 4 5 6 7	
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STATE OF NEW YORK EDWARD W. KOSTOWNIK, L.L.M. LICENSED PROFESSIONAL ENGINEER 081517		FISHER ASSOCIATES WWW.FISHERASSOC.COM	

1. INDICATES LIMITS OF PRESSURE TESTING, DISINFECTION AND BACTERIOLOGICAL SAMPLING WITHIN NEW MAIN.
2. ALL ENDS ON ABANDONED PIPE SHALL HAVE RESTRAINED CAPS.
3. CONTRACTOR TO SIZE SAMPLING POINTS TO ACHIEVE SCOUR VELOCITY AS PER NYSOT SPECIFICATIONS.
4. INDICATES EXISTING WATER LINE TO BE ABANDONED IN PLACE.
5. ALL PIPES AT INTERCONNECT TO BE FULLY RESTRAINED
6. NEW PVC WATER LINE
7. ALL PROPOSED AND EXISTING WATER LINE PIPES AND FITTINGS SHALL BE RESTRAINED. SEE NYSOT STD SHEET 663-02 FOR SPECIFIC LENGTHS.
8. SEE NYSOT STD SHEET 663-02 FOR HORIZONTAL THRUST BLOCK DIMENSIONS. SEE SPECIAL DETAIL FOR PARALLEL MAINS ON SHEET WTD-01.

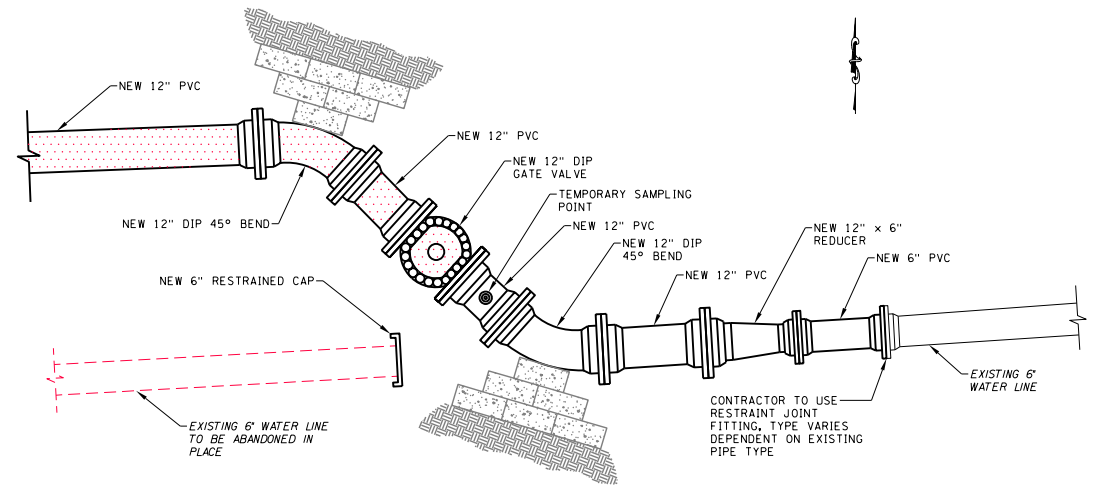
THIS SHEET SUPERSEDES SHEET 119



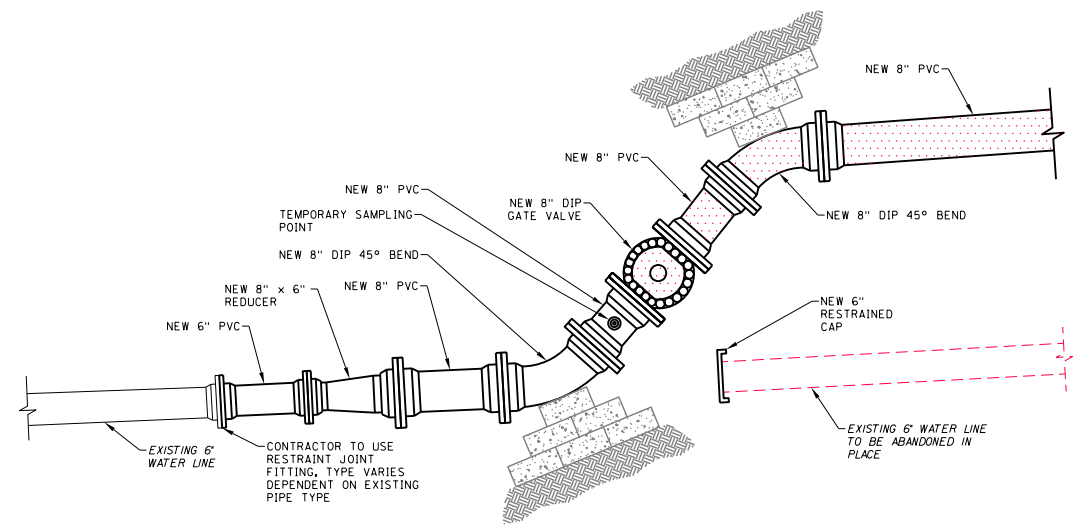
INTERCONNECTION #1  
MAIN STREET  
STATION M17+6J  
NOT TO SCALE



INTERCONNECTION #2  
TOMPKINS STREET AND MAIN STREET  
STATION T7+20  
NOT TO SCALE



INTERCONNECTION #3  
PORT WATSON STREET AND MAIN STREET  
STATION W8+55  
NOT TO SCALE



INTERCONNECTION #4  
CLAYTON AVENUE AND MAIN STREET  
STATION C1+72  
NOT TO SCALE

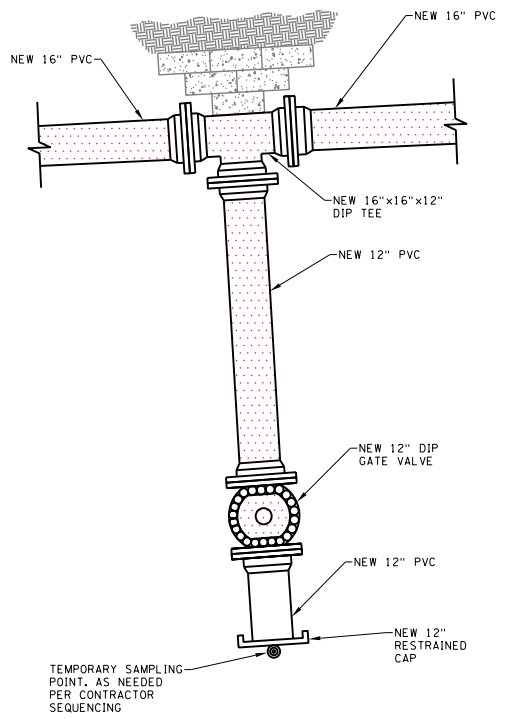
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 DGN#SYTIME0123456 \*TIME\$  
 DGN#USERNAME

PROJECT MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK		TITLE OF DRAWING INTERCONNECTS	
DRAWING NO. <b>WIN-01</b>		SHEET 119F1 OF 171	
PROJECT NO. 200395		PROJECT MANAGER T. FAULKNER	
DRAWN BY B. KNIGHTON		SCALE AS SHOWN	
ISSUE DATE FEB. 2022		DATE 9/30/22	
DESCRIPTION WATERMAIN REDESIGN		BAK BY	
REV 1		DATE 9/30/22	
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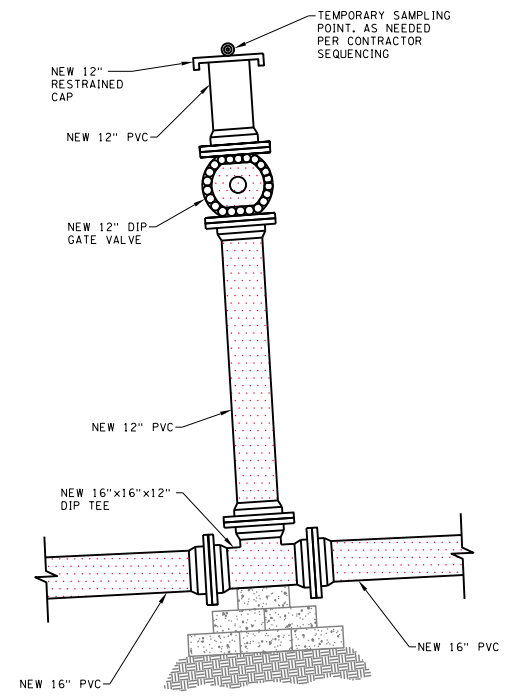




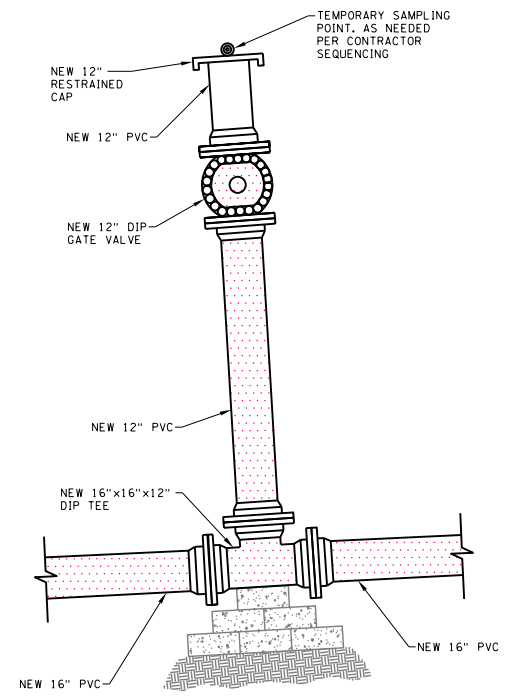
THIS SHEET SUPERSEDES SHEET 120



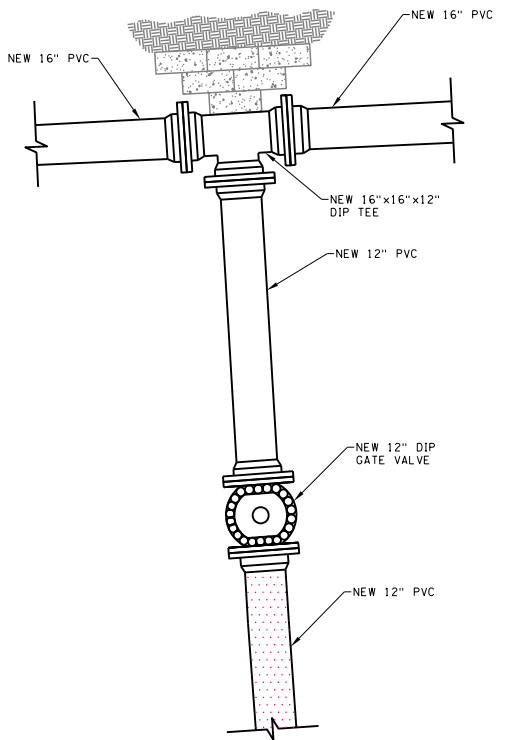
INTERCONNECTION #5 INITIAL  
WEST COURT STREET AND MAIN STREET  
STATION M24+07  
NOT TO SCALE



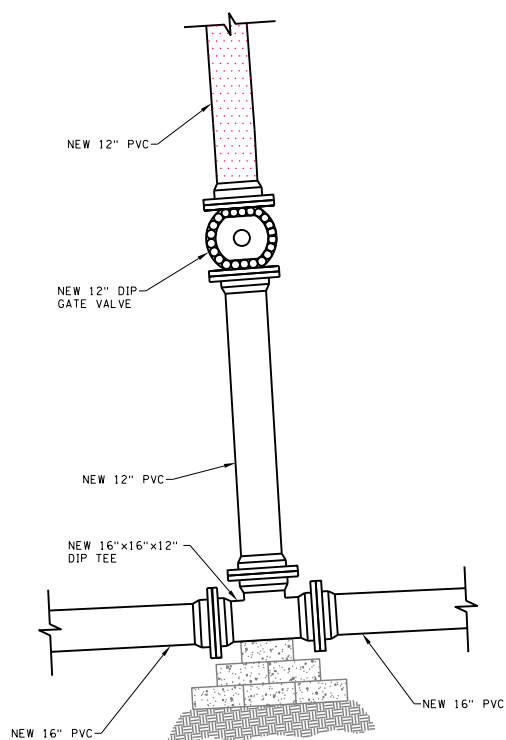
INTERCONNECTION #6 INITIAL  
WEST COURT STREET AND MAIN STREET  
STATION M24+63  
NOT TO SCALE



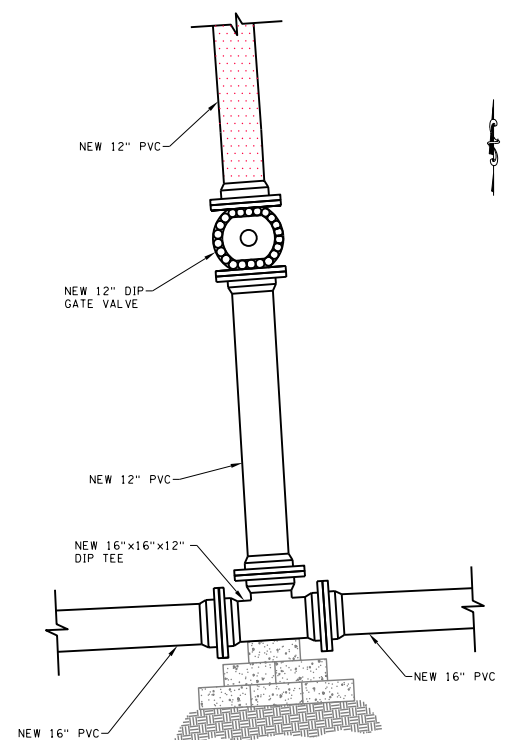
INTERCONNECTION #7 INITIAL  
COURT STREET AND MAIN STREET  
STATION M24+21  
NOT TO SCALE



INTERCONNECTION #5 FINAL  
WEST COURT STREET AND MAIN STREET  
STATION M24+07  
NOT TO SCALE



INTERCONNECTION #6 FINAL  
WEST COURT STREET AND MAIN STREET  
STATION M24+63  
NOT TO SCALE



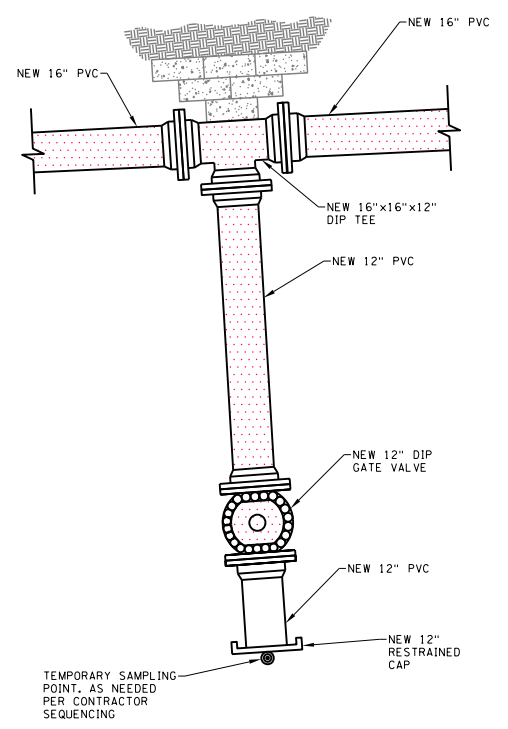
INTERCONNECTION #7 FINAL  
COURT STREET AND MAIN STREET  
STATION M24+21  
NOT TO SCALE

- 1. INDICATES LIMITS OF PRESSURE TESTING, DISINFECTION AND BACTERIOLOGICAL SAMPLING WITHIN NEW MAIN.
- 2. ALL ENDS ON ABANDONED PIPE SHALL HAVE RESTRAINED CAPS.
- 3. CONTRACTOR TO SIZE SAMPLING POINTS TO ACHIEVE SCOUR VELOCITY AS PER NYSOT SPECIFICATIONS.
- 4. INDICATES EXISTING WATER LINE TO BE ABANDONED IN PLACE.
- 5. ALL PIPES AT INTERCONNECT TO BE FULLY RESTRAINED
- 6. NEW PVC WATER LINE
- 7. ALL PROPOSED AND EXISTING WATER LINE PIPES AND FITTINGS SHALL BE RESTRAINED. SEE NYSOT STD SHEET 663-02 FOR SPECIFIC LENGTHS.
- 8. SEE NYSOT STD SHEET 663-02 FOR HORIZONTAL THRUST BLOCK DIMENSIONS. SEE SPECIAL DETAIL FOR PARALLEL MAINS ON SHEET WTD-01.

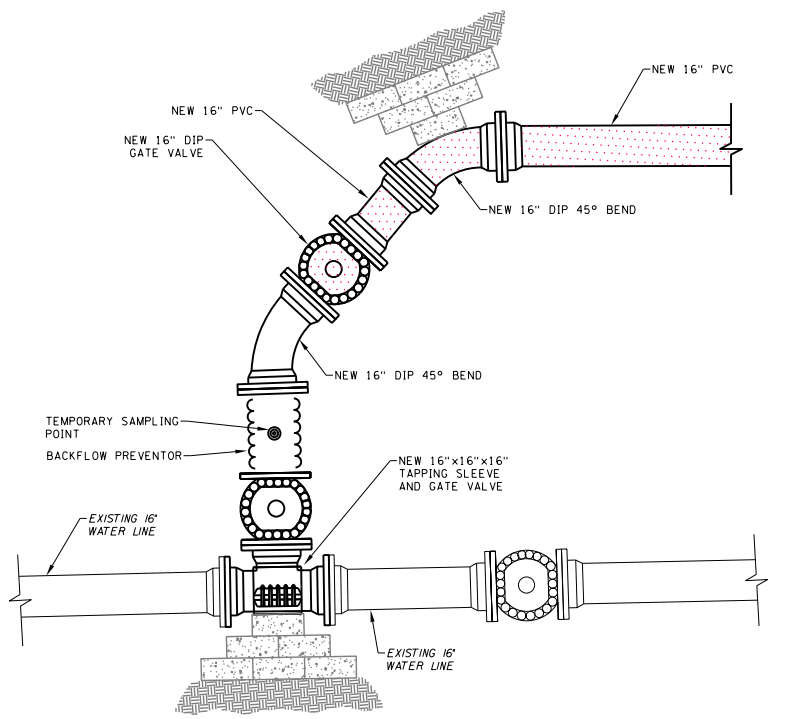
DGN#SPEL01234567890123456789012345678901234  
DGN#SYTIME0123456 \*TIME\$  
DGN#USERNAME

FISHER ASSOCIATES WWW.FISHERASSOC.COM		PROJECT MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK	TITLE OF DRAWING INTERCONNECTS	DRAWING NO. <b>WIN-02</b>	SHEET 120F1 OF 171	
STATE OF NEW YORK EDWARD W. ROSTOWNIK LICENSED PROFESSIONAL ENGINEER 08 15 17		PROJECT NO. 200395 PROJECT MANAGER T. FAULKNER DRAWN BY B. KNIGHTON SCALE AS SHOWN ISSUE DATE FEB. 2022		COPYRIGHT © 2022 FISHER ASSOCIATES, P.E., L.S., L.A., D.P.C. New York State Education Law Section 1203.1 requires that no person shall practice as an engineer or as a licensed professional engineer or land surveyor, to alter in any way, directly or indirectly, any drawing, specification or contract prepared by the author, unless the alteration is authorized in writing by the author or the author's duly authorized agent, and the alteration is followed by the notation "altered by" followed by the name of the person making the alteration, and a specific description of the alteration.		DATE 9/30/22 BAK BY
REVISIONS 7 6 5 4 3 2 1		DESCRIPTION WATERMAIN REDESIGN		REV		

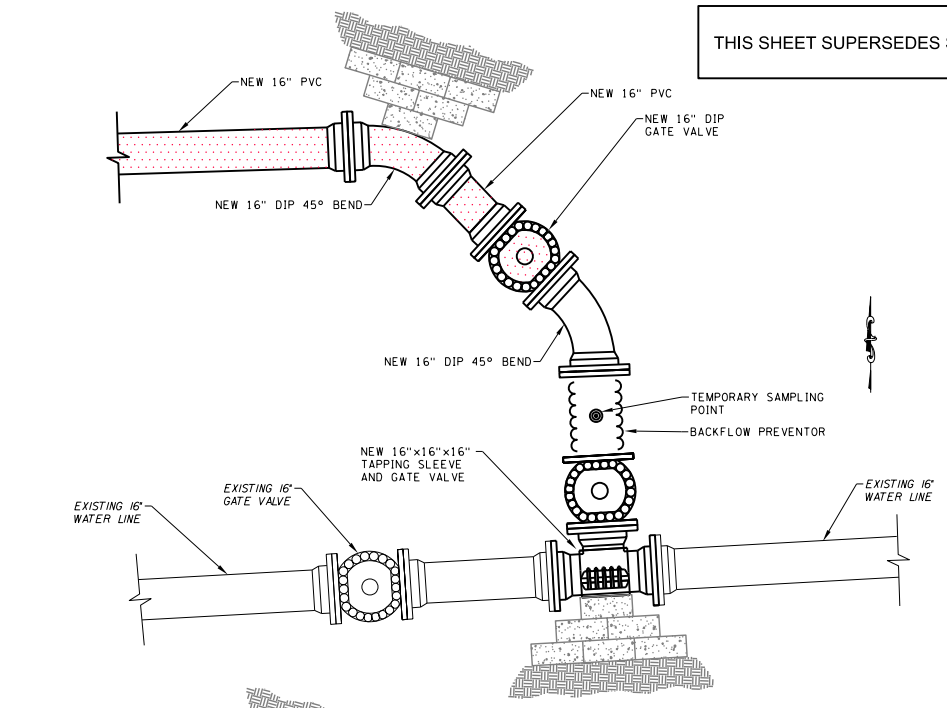
THIS SHEET SUPERSEDES SHEET 121



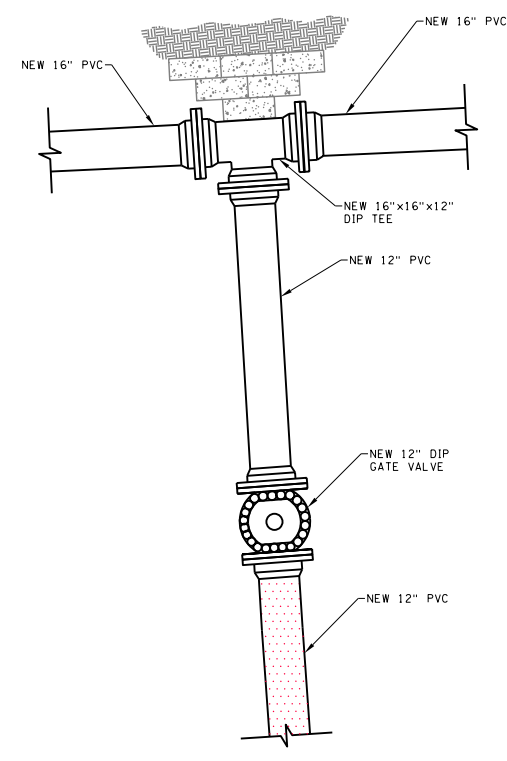
INTERCONNECTION #8 INITIAL  
COURT STREET AND MAIN STREET  
STATION M24+21  
NOT TO SCALE



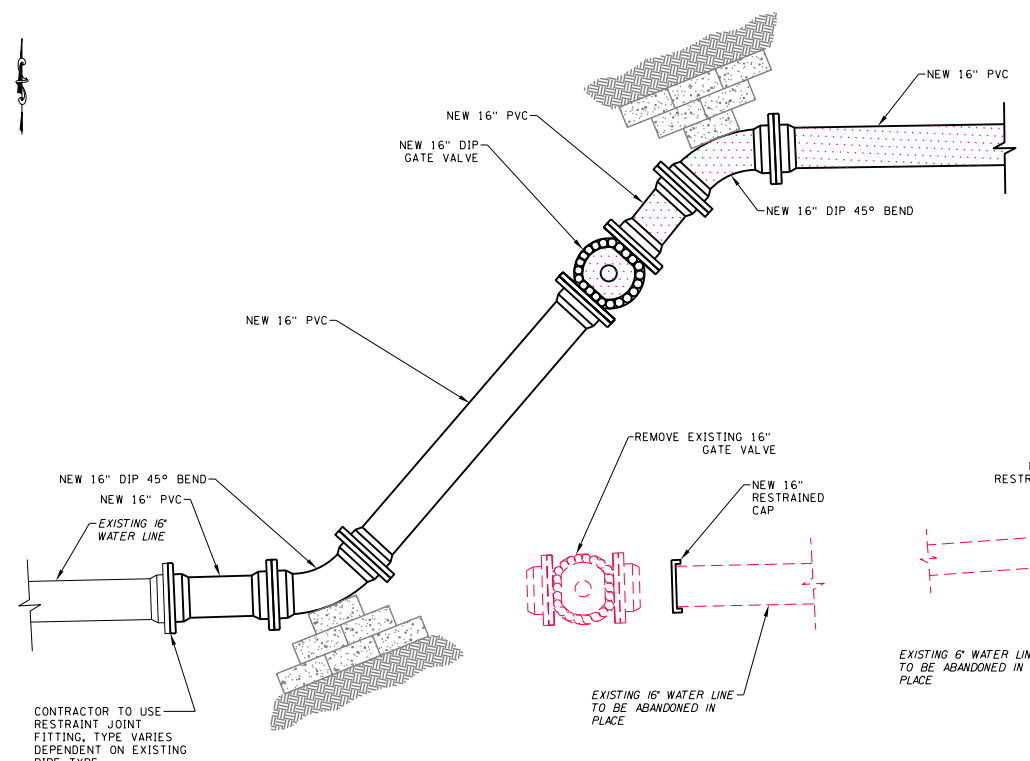
INTERCONNECTION #17 INITIAL  
WEST COURT STREET AND MAIN STREET  
STATION CS10+64  
NOT TO SCALE



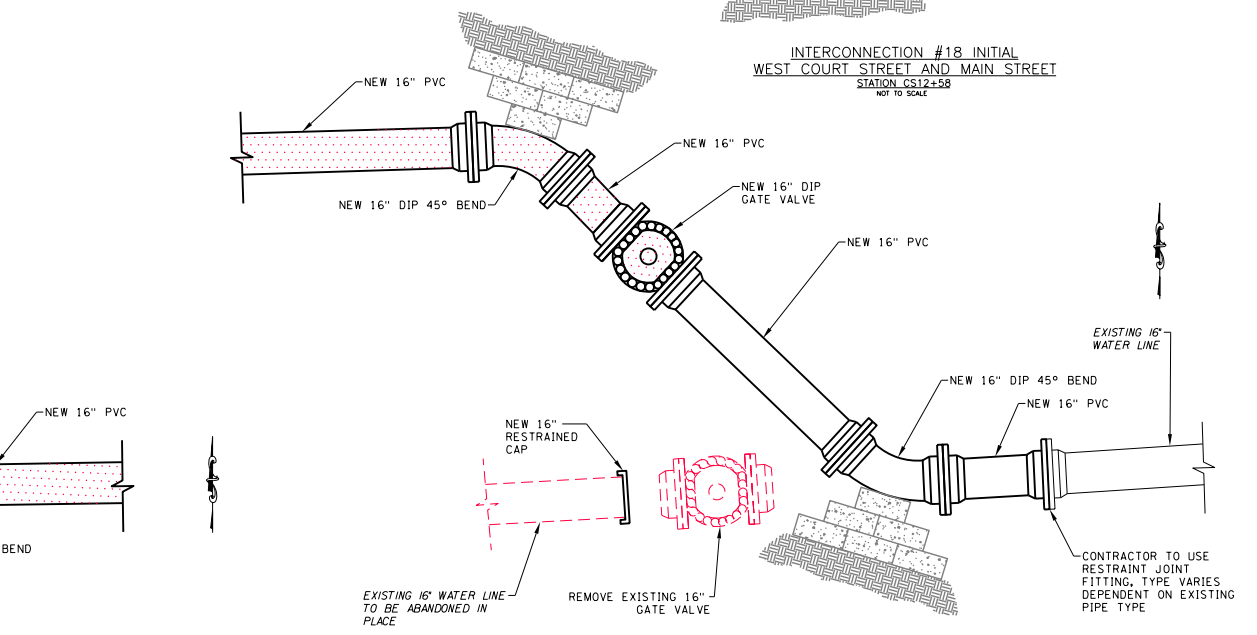
INTERCONNECTION #18 INITIAL  
WEST COURT STREET AND MAIN STREET  
STATION CS12+58  
NOT TO SCALE



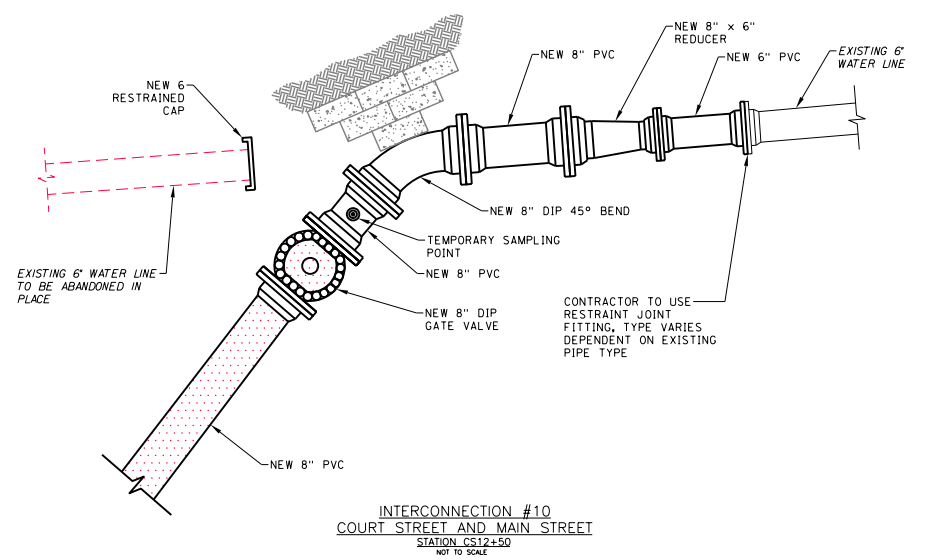
INTERCONNECTION #8 FINAL  
COURT STREET AND MAIN STREET  
STATION M24+21  
NOT TO SCALE



INTERCONNECTION #17 FINAL  
WEST COURT STREET AND MAIN STREET  
STATION CS10+64  
NOT TO SCALE



INTERCONNECTION #18 FINAL  
WEST COURT STREET AND MAIN STREET  
STATION CS12+58  
NOT TO SCALE



INTERCONNECTION #10  
COURT STREET AND MAIN STREET  
STATION CS12+50  
NOT TO SCALE

1. INDICATES LIMITS OF PRESSURE TESTING, DISINFECTION AND BACTERIOLOGICAL SAMPLING WITHIN NEW MAIN.
2. ALL ENDS ON ABANDONED PIPE SHALL HAVE RESTRAINED CAPS.
3. CONTRACTOR TO SIZE SAMPLING POINTS TO ACHIEVE SCOUR VELOCITY AS PER NYS DOT SPECIFICATIONS.
4. INDICATES EXISTING WATER LINE TO BE ABANDONED IN PLACE.
5. ALL PIPES AT INTERCONNECT TO BE FULLY RESTRAINED
6. NEW PVC WATER LINE
7. ALL PROPOSED AND EXISTING WATER LINE PIPES AND FITTINGS SHALL BE RESTRAINED. SEE NYS DOT STD SHEET 663-02 FOR SPECIFIC LENGTHS.
8. SEE NYS DOT STD SHEET 663-02 FOR HORIZONTAL THRUST BLOCK DIMENSIONS. SEE SPECIAL DETAIL FOR PARALLEL MAINS ON SHEET WTD-01.

DGN#SPEL01234567890123456789012345678901234  
DGN#SYTIME0123456 \*TIME\$  
DGN#USERNAME

REV	DESCRIPTION	DATE	BY
7			
6			
5			
4			
3			
2			
1	WATERMAIN REDESIGN	9/30/22	BAK

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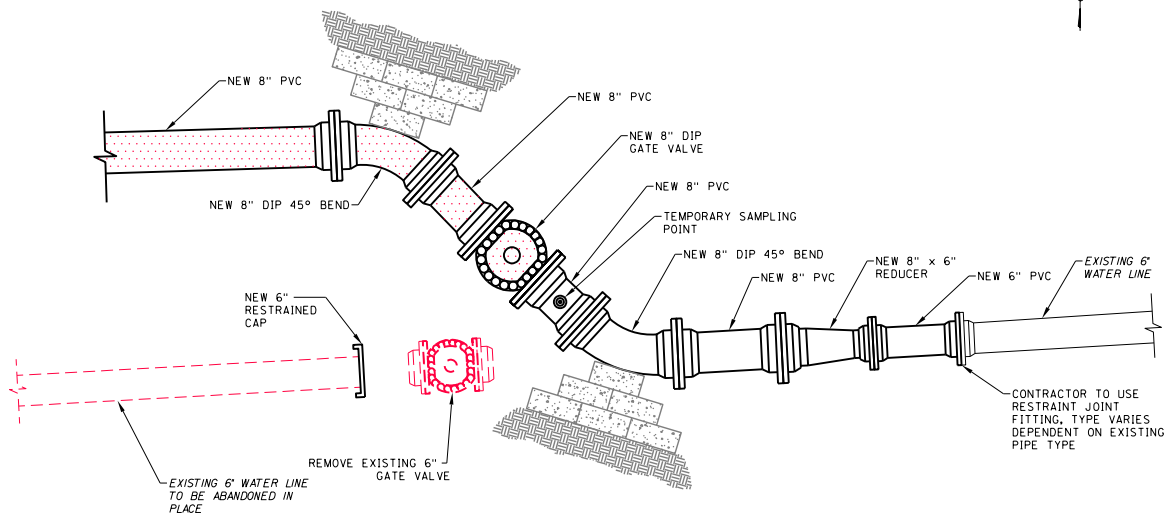
EA PROJECT NO. 200395  
PROJECT MANAGER T. FAULKNER  
DRAWN BY B. KNIGHTON  
SCALE AS SHOWN  
ISSUE DATE FEB. 2022



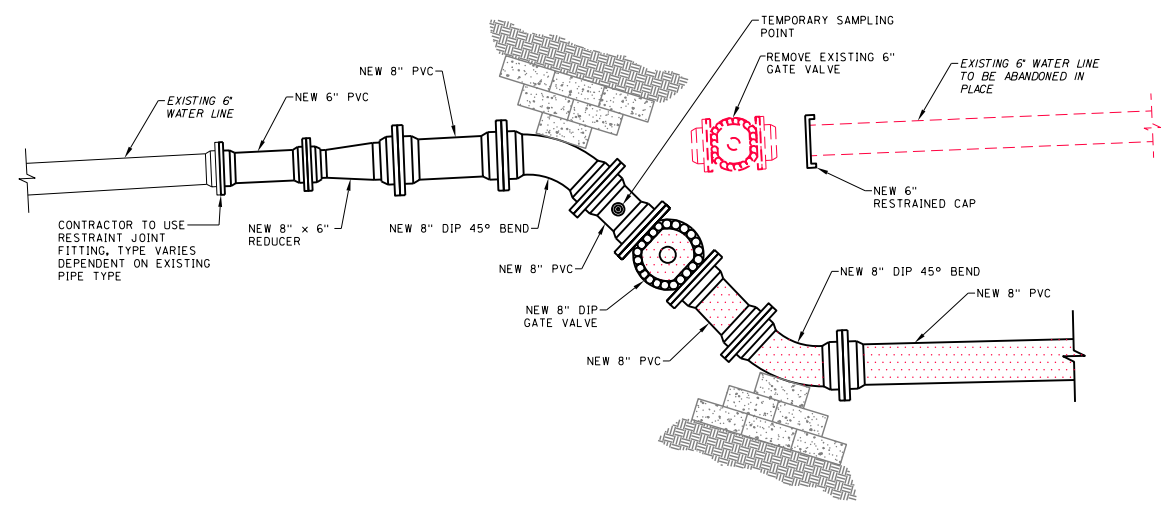
PROJECT MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND COUNTY, NEW YORK  
TITLE OF DRAWING INTERCONNECTS

DRAWING NO. WIN-03  
SHEET 121F1 OF 171

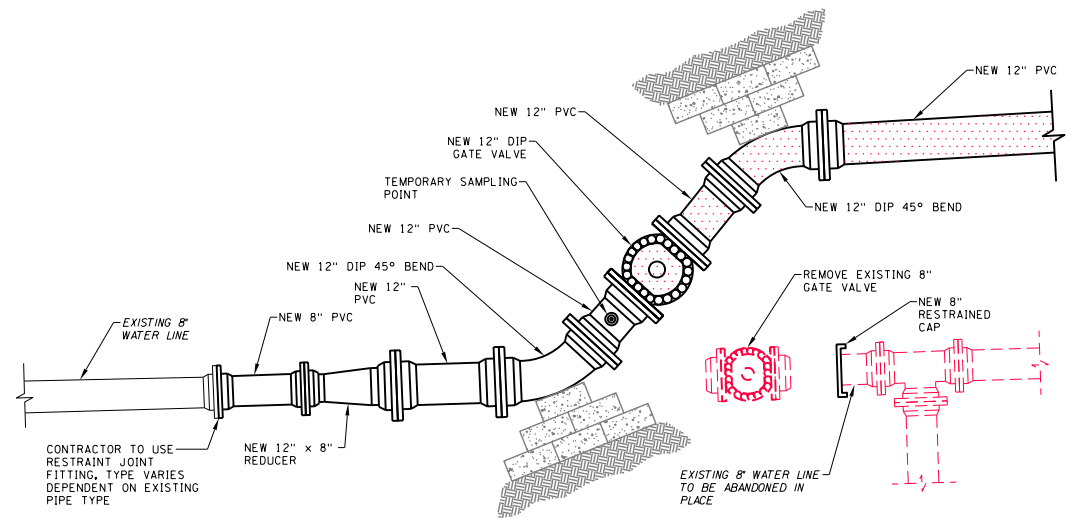
THIS SHEET SUPERSEDES SHEET 122



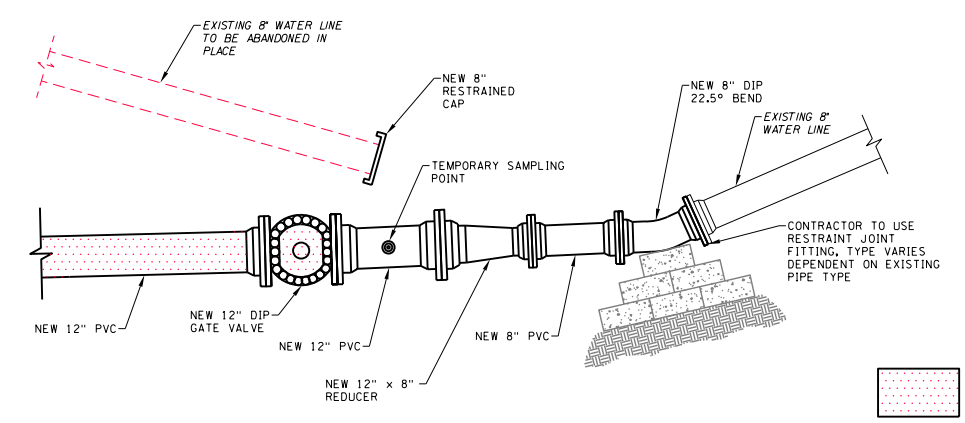
INTERCONNECTION #11  
CENTRAL AVENUE AND MAIN STREET  
STATION CA1+74  
NOT TO SCALE



INTERCONNECTION #12  
ORCHARD STREET AND MAIN STREET  
STATION OS5+36  
NOT TO SCALE



INTERCONNECTION #13  
GROTON AVE AND MAIN STREET  
STATION G2+30  
NOT TO SCALE



INTERCONNECTION #14  
CLINTON STREET AND MAIN STREET  
STATION CR+50  
NOT TO SCALE

- 1. INDICATES LIMITS OF PRESSURE TESTING, DISINFECTION AND BACTERIOLOGICAL SAMPLING WITHIN NEW MAIN.
- 2. ALL ENDS ON ABANDONED PIPE SHALL HAVE RESTRAINED CAPS.
- 3. CONTRACTOR TO SIZE SAMPLING POINTS TO ACHIEVE SCOUR VELOCITY AS PER NYS DOT SPECIFICATIONS.
- 4. INDICATES EXISTING WATER LINE TO BE FULLY RESTRAINED.
- 5. ALL PIPES AT INTERCONNECT TO BE FULLY RESTRAINED.
- 6. NEW PVC WATER LINE
- 7. ALL PROPOSED AND EXISTING WATER LINE PIPES AND FITTINGS SHALL BE RESTRAINED. SEE NYS DOT STD SHEET 663-02 FOR SPECIFIC LENGTHS.
- 8. SEE NYS DOT STD SHEET 663-02 FOR HORIZONTAL THRUST BLOCK DIMENSIONS. SEE SPECIAL DETAIL FOR PARALLEL MAINS ON SHEET WTD-01.

DGN#SPEL01234567890123456789012345678901234  
DGN#SYTIME0123456 \*TIME\$  
DGN#USERNAME

REV	DESCRIPTION	DATE	BAK	BY
1	WATERMAIN REDESIGN	9/30/22		
2				
3				
4				
5				
6				
7				

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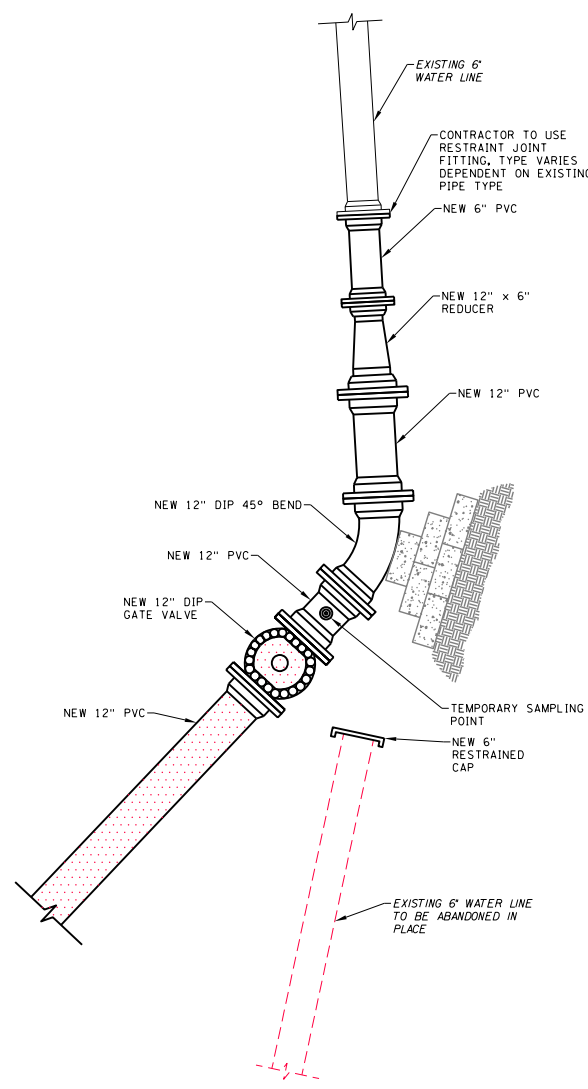
EA PROJECT NO. 200395  
PROJECT MANAGER T. FAULKNER  
DRAWN BY B. KNIGHTON  
SCALE AS SHOWN  
ISSUE DATE FEB. 2022



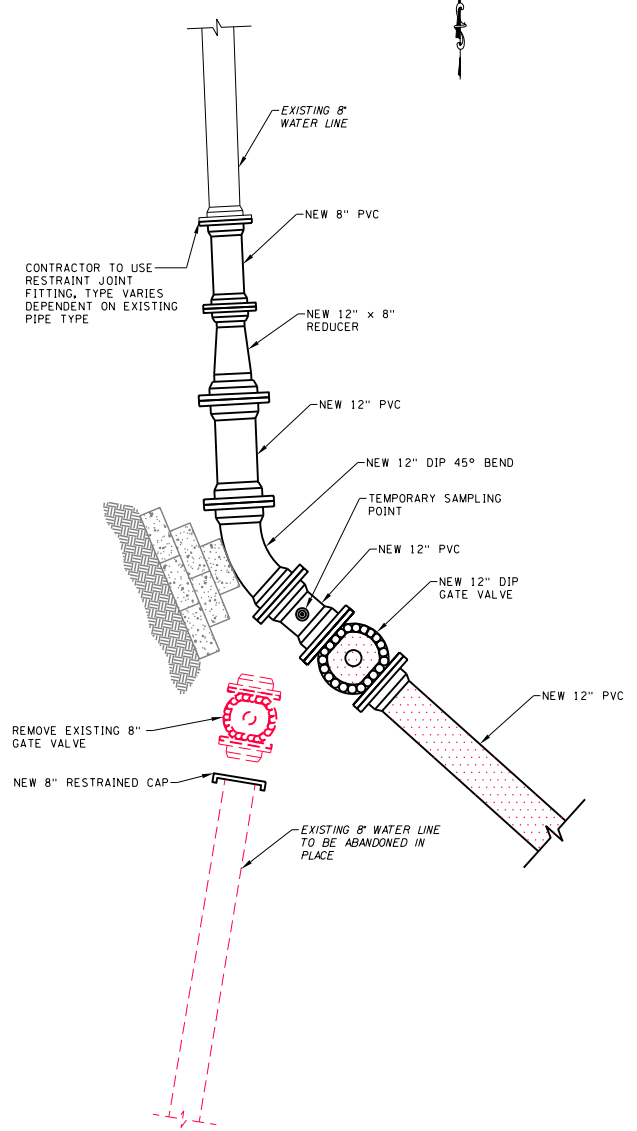
PROJECT MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND COUNTY, NEW YORK  
TITLE OF DRAWING INTERCONNECTS

DRAWING NO. WIN-04  
SHEET 122F1 OF 171

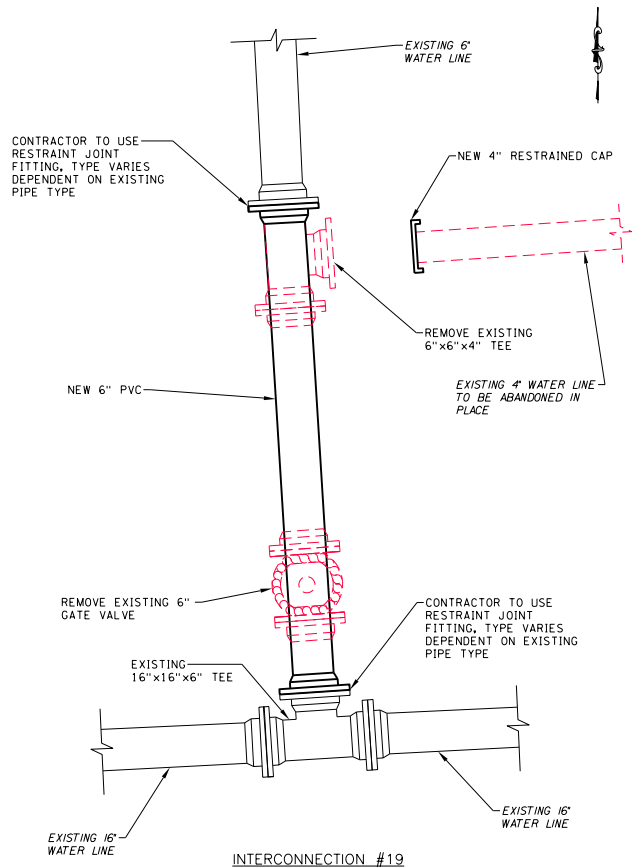
THIS SHEET SUPERSEDES SHEET 123



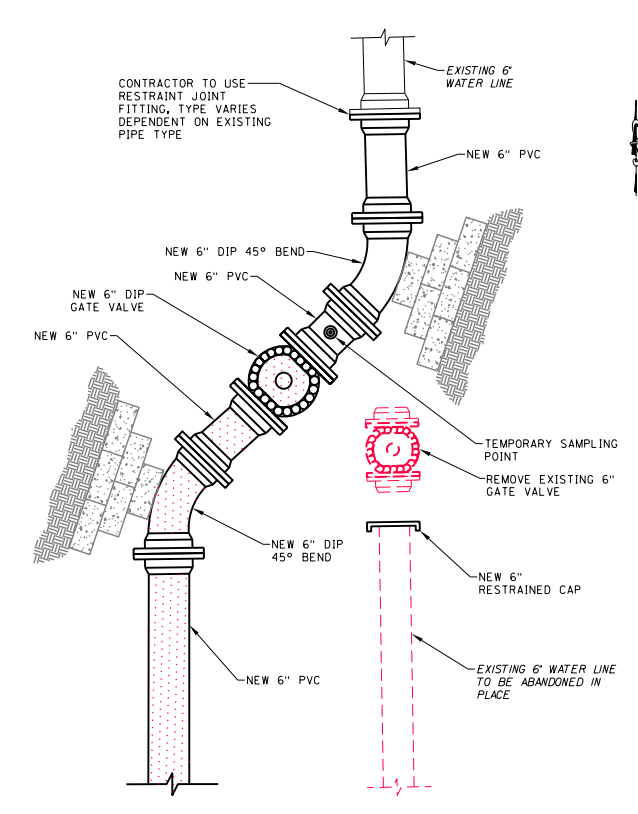
INTERCONNECTION #15  
MAIN STREET  
STATION M32+06  
NOT TO SCALE



INTERCONNECTION #16  
MAIN STREET  
STATION M32+28  
NOT TO SCALE



INTERCONNECTION #19  
WEST COURT STREET AND MONROE HEIGHTS  
STATION C58+92  
NOT TO SCALE

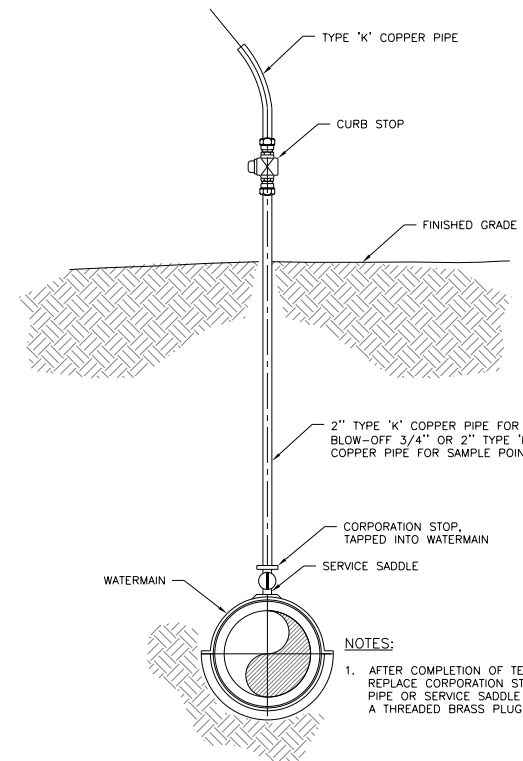


INTERCONNECTION #20  
WEST COURT STREET AND HASKELL PLACE  
STATION C59+81  
NOT TO SCALE

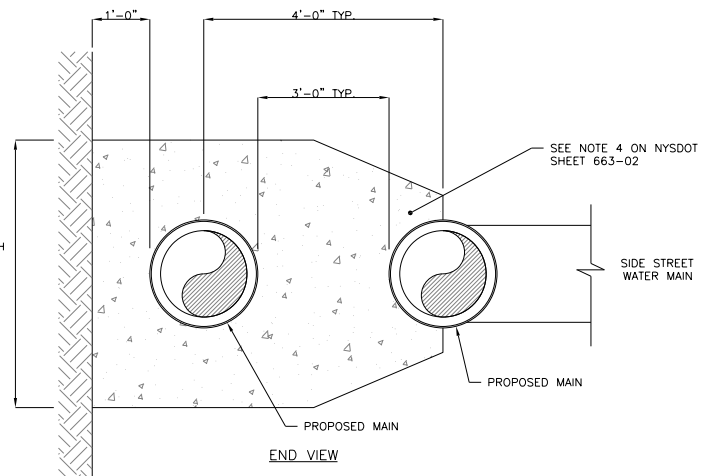
- 1. INDICATES LIMITS OF PRESSURE TESTING, DISINFECTION AND BACTERIOLOGICAL SAMPLING WITHIN NEW MAIN.
- 2. ALL ENDS ON ABANDONED PIPE SHALL HAVE RESTRAINED CAPS.
- 3. CONTRACTOR TO SIZE SAMPLING POINTS TO ACHIEVE SCOUR VELOCITY AS PER NYS DOT SPECIFICATIONS.
- 4. INDICATES EXISTING WATER LINE TO BE ABANDONED IN PLACE.
- 5. ALL PIPES AT INTERCONNECT TO BE FULLY RESTRAINED
- 6. NEW PVC WATER LINE
- 7. ALL PROPOSED AND EXISTING WATER LINE PIPES AND FITTINGS SHALL BE RESTRAINED. SEE NYS DOT STD SHEET 663-02 FOR SPECIFIC LENGTHS.
- 8. SEE NYS DOT STD SHEET 663-02 FOR HORIZONTAL THRUST BLOCK DIMENSIONS. SEE SPECIAL DETAIL FOR PARALLEL MAINS ON SHEET WTD-01.

DGN#SPEC01234567890123456789012345678901234  
DGN#SYTIME0123456 \*TIME\$  
DGN#USERNAME

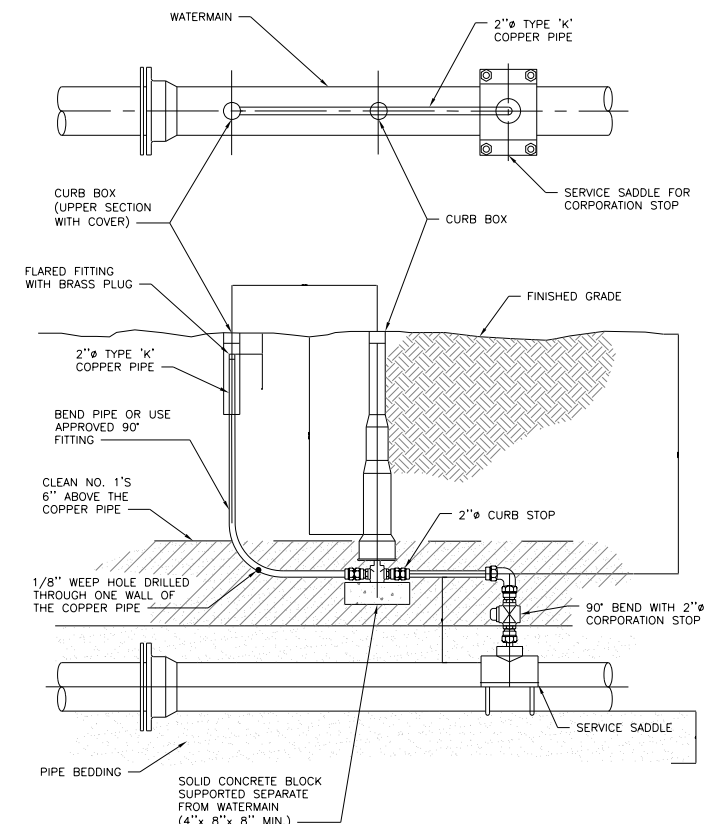
PROJECT		MAIN STREET UTILITY IMPROVEMENT PROJECT	
CITY OF CORTLAND		CORTLAND COUNTY, NEW YORK	
TITLE OF DRAWING		INTERCONNECTS	
DRAWING NO.		WIN-05	
SHEET 123F1 OF 171			
7	6	5	4
3	2	1	REV
9/30/22	DATE	WATERMAIN REDESIGN	DESCRIPTION
BAK	BY		
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E.A. PROJECT NO.		200395	
PROJECT MANAGER		T. FAULKNER	
DRAWN BY		B. KNIGHTON	
SCALE		AS SHOWN	
ISSUE DATE		FEB. 2022	



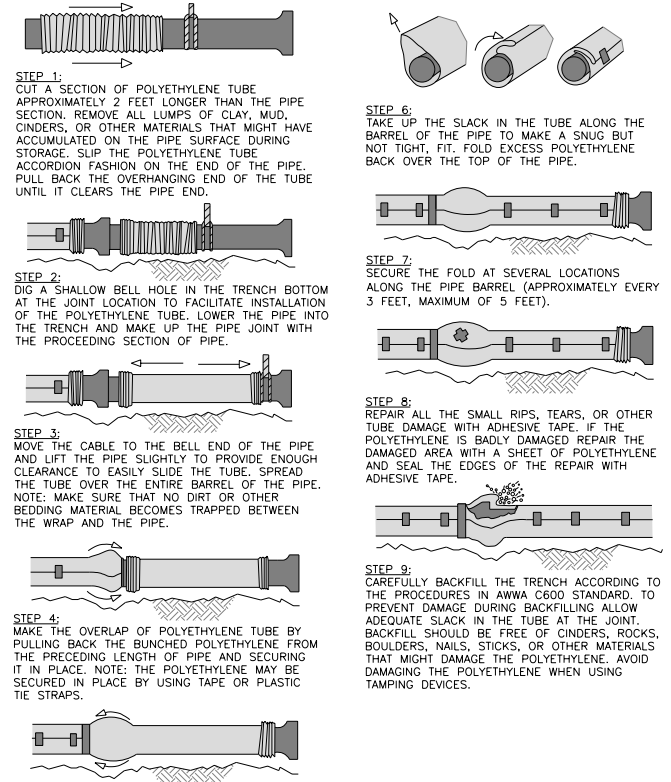
ELEVATION  
STANDARD DETAIL  
TEMPORARY  
BLOW-OFF/SAMPLING POINT  
NOT TO SCALE



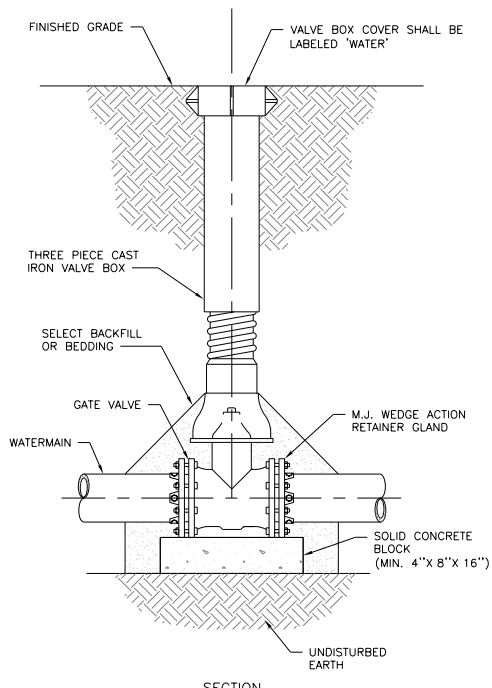
THRUST BLOCK AT DUAL MAIN  
AND SIDE STREET AREA  
NOT TO SCALE



SECTION  
STANDARD DETAIL  
BLOWOFF  
NOT TO SCALE

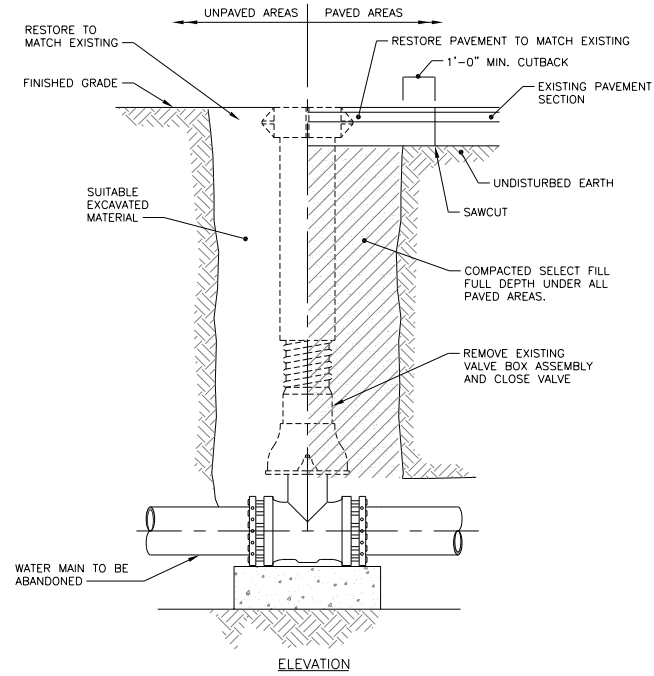


STANDARD DETAIL  
POLYETHYLENE ENCASEMENT  
OF DUCTILE IRON PIPE  
NOT TO SCALE



- NOTES:
1. VALVE SHALL NOT SUPPORT VALVE BOX.
  2. GATE VALVE SHALL NOT BE INSTALLED LEVEL.
  3. VALVE BOX SHALL BE PLUMB TO GRADE, WITH OPERATING NUT CENTERED IN BOX.

STANDARD DETAIL  
GATE VALVE SETTING  
NOT TO SCALE



ELEVATION  
EXISTING VALVE BOX  
ABANDONMENT  
NOT TO SCALE

- NOTES:
1. IN AREAS OF COMBINED TRENCH OF DUAL WATER MAIN, THRUST BLOCKING SHALL EXTEND TO UNDISTURBED SOIL ON FAR SIDE OF 2ND MAIN. THIS IS TYPICAL FOR FAR SIDE TEES.

NOTE:  
CONTRACTOR TO ADJUST  
DEPTH OF MAIN TO OBTAIN  
CLEARANCES AS SHOWN

REV	DESCRIPTION	DATE	BY
1	WATERMAIN REDESIGN	9/30/22	BAK
2			
3			
4			
5			
6			
7			

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is a violation of the law and is subject to  
the penalties provided by the law. The  
signature of the engineer or land surveyor  
on this plan is a representation that the  
design was prepared by the engineer or  
land surveyor, and a specific description  
of the contract.

EA PROJECT NO.  
200395  
PROJECT MANAGER  
T. FAULKNER  
DRAWN BY  
B. KNIGHTON  
SCALE  
AS SHOWN  
ISSUE DATE  
FEB. 2022



PROJECT  
MAIN STREET UTILITY  
IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK  
TITLE OF DRAWING  
WATER LINE DETAILS

DRAWING NO.  
WTD-01  
SHEET 124F OF 171

THIS SHEET SUPERSEDES SHEET 124

DGN#SPEC01234567890123456789012345678901234  
DGN#SYTIME0123456 \*TIME\$  
DGN#USERNAME

WATER PIPE TABLE - CONTINUED ON NEXT PAGE

ITEM NUMBERS & DESCRIPTION																	REMARKS		
FROM STATION	OFFSET	TO STATION	OFFSET	SIDE	663.0404 (FT)	663.0406 (FT)	663.0408 (FT)	663.0410 (FT)	663.0412 (FT)	663.0416 (FT)	663.0106 (FT)	663.40 (EA)	663.4104 (FT)	663.4106 (FT)	663.4108 (FT)	663.4110 (FT)	663.4112 (FT)		
M17+60	11.50	M23+96	12.00	WEST					636										
T7+21	14.00	T7+80	21.36	NORTH				66											
T7+82	43.00	T8+56	7.00	NORTH					86										
C1+72	1.00	C2+29	3.00	NORTH			58												
M18+65	7.00	M18+85	5.80	WEST					20										
M18+85	5.80	M18+88	8.50	WEST					4										
M18+88	8.50	M23+96	8.00	WEST					705										
M23+97	12.00	M23+99	14.00	WEST					4										
M23+97	8.00	M24+01	4.00	WEST					6										
M23+99	14.00	M24+27	14.00	WEST					28										
M24+01	4.00	M24+27	4.00	WEST					26										
M24+27	8.00	M24+74	8.00	WEST					47										
M24+27	12.00	M24+75	12.00	WEST					48										
M24+74	8.00	M24+76	6.00	WEST					4										
M24+75	12.00	M24+78	10.00	WEST					4										
M24+76	6.00	M24+85	6.00	WEST					9										
M24+78	10.00	M24+88	10.00	WEST					16										
M24+85	6.00	M24+88	8.00	WEST					3										
M24+88	10.00	M24+91	12.00	WEST					3										
M24+88	8.00	M29+44	9.00	WEST					456										
M24+91	12.00	M29+43	13.00	WEST					452										
M29+44	9.00	M29+47	6.00	WEST					3										
M29+43	13.00	M29+46	16.00	WEST					3										
M29+47	6.00	M29+57	6.00	WEST					10		1								
M29+46	16.00	M29+56	16.00	WEST					10										
M29+57	6.00	M29+60	9.00	WEST					3										
M29+56	16.00	M29+60	13.00	WEST					3										
M29+60	9.00	M30+95	10.00	WEST					135										
M29+60	13.00	M31+07	14.00	WEST					147										
M30+95	10.00	M31+12	6.00	EAST					23										
M31+07	14.00	M31+12	19.00	WEST					7										
M31+12	6.00	M31+27	6.00	EAST					15										
M31+12	19.00	M31+27	19.00	WEST					15										
CS10+64	16.00	CS11+29	11.00	SOUTH						70									
CS11+29	11.00	CS12+64	17.00	SOUTH						136									
CS12+13	12.00	CS12+63	16.00	SOUTH						60									
CS12+22	0.00	CS12+45	13.00	NORTH			28												
CA0+91	0.00	CA1+74	4.00	SOUTH			85												
OS5+36	9.00	OS5+41	10.00	NORTH			7												
OS5+41	10.00	OS5+46	4.00	NORTH			5												
OS5+46	4.00	OS6+31	4.00	NORTH			85												
G7+31	13.00	G8+50	25.00	SOUTH					126										
M31+27	45.00	M32+28	26.00	EAST					103										
M31+26	8.00	M32+06	4.00	WEST					85										
M18+01	12.00	M18+02	54.00	EAST						66									
T7+37	20.00	T7+36	32.00	NORTH						11									
M20+09	17.00	M20+08	29.00	WEST						18									
M21+19	17.00	M21+19	32.00	WEST						19									

THIS SHEET SUPERSEDES SHEET 125A1

POLYETHYLENE ENCASEMENT FOR DUCTILE IRON FITTINGS FOR PVC WATERMANS SHALL BE INCLUDED IN BID ITEMS 663.04XX. POLYETHYLENE ENCASEMENT SHALL BE INSTALLED 5' EITHER SIDE OF FITTING.

REV	DESCRIPTION	DATE
1		
2	WATERMAIN REDESIGN	9/30/22
3	REVISED ITEMS IN TABLE	4/15/22
4		
5		
6		
7		

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EA PROJECT NO: 200395  
PROJECT MANAGER: T. FAULKNER  
DRAWN BY: B. KNIGHTON  
SCALE: AS SHOWN  
ISSUE DATE: FEB. 2022



PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK  
TITLE OF DRAWING: WATER PIPE TABLE (SHEET 1 OF 3)

DRAWING NO. WTT-01  
SHEET 125F1 OF 171

DCMSRECD\2345678901\2345678901\2345678901\234  
DCMS\SYSTEM\2345678901\2345678901  
DCMS\USER\NAME

DGN#SPEC01234567890123456789012345678901234  
DGN#SYTIME0123456 \*TIME\*  
DGN#USERNAME

THIS SHEET WAS LEFT INTENTIONALLY BLANK

THIS SHEET SUPERSEDES SHEET 125A2  
(WTT-01ALT)

DRAWING NO.  
**WTT-01ALT**  
SHEET 125F1 OF 171

PROJECT  
MAIN STREET UTILITY  
IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK  
TITLE OF DRAWING  
PLASTIC WATER PIPE TABLE (SHEET 1 OF 2)



FA PROJECT NO.  
200395  
PROJECT MANAGER  
T. FAULKNER  
DRAWN BY  
B. KNIGHTON  
SCALE  
AS SHOWN  
ISSUE DATE  
FEB. 2022

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alteration, and a specific description  
of the alteration.

REV	DESCRIPTION	DATE	BY
7			
6			
5			
4			
3			
2	WATERMAIN REDESIGN	9/30/22	BAK
1	ADD ITEM # REM QUANTITY #	4/22/22	BAK

DGN#SPEC01234567890123456789012345678901234  
 DGN#SYTIME0123456 \*TIME\*  
 DGN#USERNAME

WATER PIPE TABLE - CONTINUED ON NEXT PAGE

ITEM NUMBERS & DESCRIPTION		663.0410	663.0412	663.0416	663.0418	663.0410	663.0412	663.0416	663.0418	663.4104	663.4106	663.4108	663.4110	663.4112	REMARKS			
FROM STATION	OFFSET	TO STATION	OFFSET	SIDE	663.0404 (FT)	663.0406 (FT)	663.0408 (FT)	663.0410 (FT)	663.0412 (FT)	663.0416 (FT)	663.0106 (FT)	663.40 (EA)	663.4104 (FT)	663.4106 (FT)	663.4108 (FT)	663.4110 (FT)	663.4112 (FT)	
M23+85	15.00	M23+85	27.00	WEST							13							
M24+89	12.00	M24+89	30.00	EAST							34							
M27+02	12.00	M27+03	29.00	EAST							37							
M27+61	12.00	M27+61	26.00	WEST							11							
G8+33	21.00	G8+30	31.00	SOUTH							10							
M31+74	10.00	M31+73	29.00	WEST							19							
T8+53	7.50	T8+56	3.00	NORTH		3												
C1+75	1.30	C1+72	0.80	SOUTH		3												
CS10+91	10.50	CS10+88	10.80	NORTH	3													
CS12+10	13.00	CS12+13	12.80	NORTH		3												
CA1+70	4.50	CA1+73	3.75	NORTH		3												
OS5+39	9.00	OS5+36	9.30	NORTH		3												
G7+37	13.00	G7+34	13.50	SOUTH			3											
G8+46	23.80	G8+49	24.90	SOUTH			3											
M32+02	3.90	M32+05	4.30	WEST		3												
M32+23	27.00	M32+26	26.30	EAST			3											
M17+61	11.50	M17+73	11.50	WEST												12		
T7+21	13.70	T7+35	14.40	NORTH												14		
T8+34	12.10	T8+62	7.10	NORTH									28					
C1+72	0.70	C1+83	0.70	SOUTH									11					
CS10+64	11.00	CS10+74	11.10	SOUTH									10					
CS11+95	16.50	CS12+63	12.80	SOUTH										68				
CA1+45	3.70	CA1+74	3.70	SOUTH										29				
OS5+03	9.50	OS5+36	9.50	NORTH										33				
G7+30	13.40	G7+45	13.70	SOUTH									15					
G8+45	20.00	G8+55	24.00	SOUTH									10					
M31+87	3.50	M32+06	4.50	WEST									20					
M31+96	26.90	M32+28	26.50	EAST										32				
M19+05	43.30	M19+05	50.50	WEST									10					
M19+13	43.00	M19+13	50.30	WEST									10					
M19+37	43.00	M19+37	50.20	WEST									10					
M19+51	42.60	M19+51	49.80	WEST									10					
M20+01	41.00	M20+01	48.80	EAST									10					
M20+81	40.40	M20+81	47.80	EAST									10					
M21+27	42.30	M21+27	49.80	EAST									10					
M21+93	39.90	M21+93	49.30	EAST										12				
M22+20	44.90	M22+20	73.40	WEST										35				
M22+48	40.80	M22+48	50.20	EAST									12					
M23+33	42.90	M23+33	50.70	WEST										10				
M25+76	42.80	M25+76	51.10	EAST									12					
M26+28	39.60	M26+28	47.10	WEST									10					
M26+65	43.30	M26+65	46.60	EAST										9				
M27+73	39.40	M27+73	49.30	EAST									13					
M28+37	40.60	M28+37	48.10	WEST									10					
M29+13	41.60	M29+13	48.40	WEST									9					
M29+93	39.60	M29+93	48.10	EAST									11					
M30+29	40.00	M30+29	47.40	WEST									10					
CA1+59	14.40	CA1+59	21.90	NORTH									10					

THIS SHEET SUPERSEDES SHEET 126A1

POLYETHYLENE ENCASEMENT FOR DUCTILE IRON FITTINGS FOR PVC WATERMAINS SHALL BE INCLUDED IN BID ITEMS 663.04XX. POLYETHYLENE ENCASEMENT SHALL BE INSTALLED 5' EITHER SIDE OF FITTING.

REV	DESCRIPTION	DATE
1	WATERMAIN REDESIGN	9/30/22
2	REVISED ITEMS IN TABLE	4/15/22
3		
4		
5		
6		
7		

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 PROJECT MANAGER T. FAULKNER  
 DRAWN BY  
 SCALE AS SHOWN  
 ISSUE DATE FEB. 2022



PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT  
 CITY OF CORTLAND  
 CORTLAND COUNTY, NEW YORK  
 TITLE OF DRAWING: WATER PIPE TABLE (SHEET 2 OF 3)

DRAWING NO. WTT-02  
 SHEET 126F1 OF 171



DGN#SPEC01234567890123456789012345678901234  
DGN#SYTIME0123456 \*TIME\*  
DGN#USERNAME

THIS SHEET WAS LEFT INTENTIONALLY BLANK

THIS SHEET SUPERSEDES SHEET 126A2  
(WTT-02ALT)

DRAWING NO.  
**WTT-02ALT**  
SHEET 126F1 OF 171

PROJECT  
MAIN STREET UTILITY  
IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK



EA PROJECT NO.  
200395  
PROJECT MANAGER  
T. FAULKNER  
DRAWN BY  
B. KNIGHTON  
SCALE  
AS SHOWN  
ISSUE DATE  
FEB. 2022

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signature or seal. Any alteration of  
the notation, entered by, followed by  
alteration, and a specific description  
of the alteration.

REV	DESCRIPTION	DATE	BY
7			
6			
5			
4			
3			
2	WATERMAIN REDESIGN	9/30/22	BAK
1	ADD ITEM # REM QUANTITY #	4/22/22	BAK

THIS SHEET SUPERSEDES SHEET 127A1

POLYETHYLENE ENCASUREMENT FOR DUCTILE IRON FITTINGS FOR PVC WATERMANS SHALL BE INCLUDED IN BID ITEMS 663.04XX. POLYETHYLENE ENCASEMENT SHALL BE INSTALLED 5' EITHER SIDE OF FITTING.

WATER PIPE TABLE

ITEM NUMBERS & DESCRIPTION					663.0410	PLASTIC WATER PIPE, 10"					663.4104	REMOVE & DISPOSE OF EXISTING WATER MAIN, 4"					663.4112	REMOVE & DISPOSE OF EXISTING WATER MAIN, 12"				
663.0404 PLASTIC WATER PIPE, 4"					663.0412	PLASTIC WATER PIPE, 12"					663.4106	REMOVE & DISPOSE OF EXISTING WATER MAIN, 6"					663.40	DISCONNECT AND CAP EXISTING WATER MAIN				
663.0406 PLASTIC WATER PIPE, 6"					663.0416	PLASTIC WATER PIPE, 16"					663.4108	REMOVE & DISPOSE OF EXISTING WATER MAIN, 8"										
663.0408 PLASTIC WATER PIPE, 8"					663.0106	DUCTILE IRON CEMENT LINED WATER PIPE, CLASS 53, 6"					663.4110	REMOVE & DISPOSE OF EXISTING WATER MAIN, 10"										
FROM STATION	OFFSET	TO STATION	OFFSET	SIDE	663.0404 (FT)	663.0406 (FT)	663.0408 (FT)	663.0410 (FT)	663.0412 (FT)	663.0416 (FT)	663.0106 (FT)	663.40 (EA)	663.4104 (FT)	663.4106 (FT)	663.4108 (FT)	663.4110 (FT)	663.4112 (FT)	REMARKS				
OS5+67	12.40	OS5+67	13.70	NORTH									8									
CA2+60	3.80	CA2+70	4.00	SOUTH		10								10								
CA4+09	6.30	CA4+19	6.60	SOUTH		10								10								
CA5+13	8.20	CA5+22	8.50	SOUTH		9								9								
CA6+92	11.00	CA7+01	11.30	SOUTH		9								9								
CH7+42	26.60	CH7+51	26.80	NORTH		9								9								
CS5+52	0.00	CS5+52	18.00	NORTH		18								18								
CS9+82	36.00	CS9+82	46.00	NORTH										11								
CS9+77	-16.00	CS9+77	37.00	NORTH		37																
CS9+77	37.00	CS9+82	41.00	NORTH		7																
CS9+82	41.00	CS9+82	46.00	NORTH		5																
M17+85	19.00	M17+85	19.00	WEST								1										
T7+34	15.00	T7+34	15.00	NORTH								1										
T8+29	13.00	T8+29	13.00	NORTH								1										
C1+83	1.00	C1+83	1.00	SOUTH								1										
CS10+72	17.20	CS10+72	17.20	SOUTH								1										
CS11+95	12.50	CS11+95	12.50	SOUTH								1										
CA1+45	4.00	CA1+45	4.00	SOUTH								1										
OS5+70	9.00	OS5+70	9.00	NORTH								1										
G7+45	14.60	G7+55	14.60	SOUTH								1										
G8+42	20.00	G8+42	20.00	SOUTH								1										
M31+87	3.20	M31+87	3.20	WEST								1										
M31+97	27.00	M31+97	27.00	EAST								1										
M24+26	4.00	M24+26	4.00	WEST								1										
M24+26	8.00	M24+26	8.00	WEST								1										
M24+26	12.00	M24+26	12.00	WEST								1										
M24+26	14.00	M24+26	14.00	WEST								1										
CS9+82	36.00	CS9+82	36.00	NORTH								1										
CS6+00	12.00	CS6+00	12.00	NORTH								1										
TOTALS					10	150	300	80	3510	290	260	18	180	380	70	20	20					

7					
6					
5					
4					
3					
2	WATERMAIN REDESIGN			9/30/22	BAK
1	REMOVED INSERTA VALVES			4/15/22	BAK
REV	DESCRIPTION			DATE	BY

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EA PROJECT NO. 200395  
 PROJECT MANAGER T. FAULKNER  
 DRAWN BY  
 SCALE AS SHOWN  
 ISSUE DATE FEB. 2022



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PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT  
 CITY OF CORTLAND  
 CORTLAND COUNTY, NEW YORK

TITLE OF DRAWING: WATER PIPE TABLE (SHEET 3 OF 3)

DRAWING NO. **WTT-03**

SHEET 127F1 OF 171

DGN#SPEC01234567890123456789012345678901234  
 DGN#SYTIME0123456 \*TIME\*  
 DGN#USERNAME







DGN#SPEC01234567890123456789012345678901234  
DGN#SYTIME0123456 \*TIME\*  
DGN#USERNAME

THIS SHEET WAS LEFT INTENTIONALLY BLANK

THIS SHEET SUPERSEDES SHEET 130A1

DRAWING NO.  
**WTT-06ALT**

PROJECT  
MAIN STREET UTILITY  
IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK

TITLE OF DRAWING  
PVC WATER SERVICE DISPOSITION TABLE (SHEET 1 OF 1)



FA PROJECT NO.  
200395  
PROJECT MANAGER  
T. FAULKNER  
DRAWN BY  
B. KNIGHTON  
SCALE  
AS SHOWN  
ISSUE DATE  
FEB. 2022

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alteration, and a specific description  
of the alteration.

REV	DESCRIPTION	DATE	BAK	BY
7				
6				
5				
4				
3				
2				
1	WATERMAIN REDESIGN	9/30/22		

**WATER VALVE DISPOSITION TABLE**

ITEM NUMBERS & DESCRIPTION	663.1006	RESILIENT WEDGE VALVE AND VALVE BOX, 6"
660.18510005 AIR RELEASE/BLOWOFF ASSEMBLY	663.1008	RESILIENT WEDGE VALVE AND VALVE BOX, 8"
663.161606 TAPPING SLEEVE, VALVE & VALVE BOX ASSEMBLY, 16" X16" X6"	663.1010	RESILIENT WEDGE VALVE AND VALVE BOX, 10"
663.161616 TAPPING SLEEVE, VALVE & VALVE BOX ASSEMBLY, 16" X16" X16"	663.1012	RESILIENT WEDGE VALVE AND VALVE BOX, 12"
663.42 REMOVE AND DISPOSE OF EXISTING WATER VALVE & VALVE BOX	663.1016	RESILIENT WEDGE VALVE AND VALVE BOX, 16"

STATION	OFFSET	SIDE	660.18510005 (EA)	663.1006 (EA)	663.1008 (EA)	663.1010 (EA)	663.1012 (EA)	663.1016 (EA)	663.161606 (EA)	663.161616 (EA)	663.42 (EA)	REMARKS
G8+24	31	E									1	
G8+32	24	S		1								
G8+42	23	S					1					
G8+44	23	S	1									
M31+74	15	W		1								
M31+92	1	E					1					
M31+92	4	E								1		
M31+96	2	E	1									
M32+03	28	E								1		
M32+07	33	E					1					
M32+11	31	E	1									
M30+91	14	W	1									
M31+23	6	E	1									
CS9+79	38	N	1	1								
CS9+77	16	S							1			
<b>TOTALS</b>			72	11	5	1	23	1	1	2	36	

**NOTES**

1. THE COST OF REMOVING ABANDONED VALVES AND VALVE BOXES ENCOUNTERED DURING TRENCHING OPERATIONS SHALL BE INCLUDED IN THE PRICE BID FOR 206.0201.
2. ALL EXISTING WATER VALVES THAT ARE TO BE ABANDONED SHALL HAVE THE VALVE BOX REMOVED AND THE ABANDONED VALVE SHALL BE LEFT IN THE CLOSED POSITION, INCLUDING VALVES ON HYDRANT BRANCHES. THE COST FOR THIS SHALL BE INCLUDED IN ITEM 203.02.

THIS SHEET SUPERSEDES SHEET 131A2

**HYDRANT DISPOSITION TABLE**

ITEM NUMBERS & DESCRIPTION	663.1301 (EA)	663.43 (EA)	REMARKS
663.1301 INSTALL HYDRANT			
663.43 REMOVE AND DISPOSE EXISTING HYDRANT			

STATION	OFFSET	SIDE	663.1301 (EA)	663.43 (EA)	REMARKS
T7+37	32.00	North	1		
T7+43	32.00	North		1	
M18+01	54.00	East	1		
T8+35	34.00	South		1	
M20+05	33.00	West		1	
M20+09	29.00	West	1		
M21+16	32.00	East		1	
M21+19	32.00	West	1		
M23+85	27.00	West	1		
M23+98	32.00	West		1	
M24+83	33.00	East		1	
M24+89	30.00	East	1		
M26+98	31.00	East		1	
M27+02	29.00	East	1		
M27+61	26.00	West	1		
M27+83	33.00	West		1	
M30+05	38.00	East		1	
M30+98	35.00	West		1	
M31+74	29.00	West	1		
G8+33	31.00	South	1		
<b>TOTALS</b>			10	10	

DGN#SPEC01234567890123456789012345678901234  
 DGN#SYTIME0123456 \*TIME\$  
 DGN#USERNAME

7	6	5	4	3	2	1	REV	DATE	BY
								9/30/22	BAK
								4/22/22	BAK
								4/15/22	BAK
									BY

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 work, or the seal of the professional  
 engineer or land surveyor, is altered,  
 the notation "altered by" followed by the  
 name of the person making the alteration,  
 and a specific description  
 of the alteration.

EA PROJECT NO.  
 200395  
 PROJECT MANAGER  
 T. FAULKNER  
 DRAWN BY  
 B. KNIGHTON  
 SCALE  
 AS SHOWN  
 ISSUE DATE  
 FEB. 2022



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PROJECT  
 MAIN STREET UTILITY  
 IMPROVEMENT PROJECT  
 CITY OF CORTLAND  
 CORTLAND COUNTY, NEW YORK  
 TITLE OF DRAWING  
 WATER VALVE DISPOSITION TABLE (SHEET 4 OF 4)  
 HYDRANT DISPOSITION TABLE (SHEET 1 OF 1)

WTT-07

SHEET 131F1 OF 171













THIS SHEET SUPERSEDES SHEET 137A2

WATER MAIN FITTINGS & RESTRAINTS TABLE - CONTINUED ON NEXT PAGE

ITEM NUMBER AND DESCRIPTION		IRON WATER MAIN FITTINGS (3-8 INCH DIAMETER) (LB)				IRON WATER MAIN FITTINGS (10-16 INCH DIAMETER) (LB)				WEDGE TYPE MECHANICAL RESTRAINT GLANDS (EA)											REMARKS								
STATION	OFFSET	SIDE	BENDS			TEES	REDUCER	CAP	BENDS			TEES	REDUCER	CAP	663.1804	663.1806	663.1808	663.1810	663.1812	663.1816	663.2104	663.2106	663.2108	663.2110	663.2112	663.2116	663.2118	663.2116	
			90°	45°	22.5°				90°	45°	22.5°				(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)

M24+87	10.0	WEST								202																2			
M24+89	30.0	WEST																			2								
M24+89	6.0	WEST											323								1					2			
M24+89	17.0	WEST	44																		2								
M24+90	12.0	WEST								202																2			
M24+92	6.0	WEST								202																2			
M24+95	8.0	WEST								202																2			
M25+13	8.0	WEST								202																2			
M25+18	8.0	WEST								202																2			
CS9+82	36.0	NORTH						22													1								
CS6+00	12.0	NORTH						22													1								
CS10+64	16.0	SOUTH																									2		
CS10+67	16.0	SOUTH								202																2			
CS10+72	17.2	SOUTH											92														1		
CS10+75	8.0	SOUTH								202																2			
CS11+08	7.5	SOUTH								202																	2		
CS11+11	7.5	SOUTH								202																	2		
CS11+26	8.0	SOUTH								202																	2		
CS11+29	11.0	SOUTH								202																	2		
CS11+40	11.0	SOUTH								202																	2		
CS11+61	12.0	SOUTH								202																	2		
CS11+66	13.0	SOUTH								202																	2		
CS11+79	17.5	SOUTH								202																	2		
CS11+86	12.5	SOUTH								202																	2		
CS11+89	12.5	SOUTH								202																	2		
CS11+96	16.0	SOUTH						22																		1			
CS12+03	13.0	SOUTH											323								1						2		
CS12+12	13.0	SOUTH											323													3			
CS12+12	9.0	SOUTH		49																						2			
CS12+25	13.0	SOUTH											323								1						2		
CS12+35	13.0	NORTH		49																						2			
CS12+36	13.0	NORTH								202																2			
CS12+40	13.0	NORTH								202																2			
CS12+40	13.0	SOUTH								202																2			
CS12+51	13.0	NORTH																								2			
CS12+51	16.0	SOUTH								202																2			
CS12+53	16.0	SOUTH																			1						2		
M25+03	9.1	WEST																								1			
M25+08	8.0	WEST											323								1					2			
M25+08	36.9	EAST		49																	2								
M25+08	43.7	EAST		49																	2								
M25+08	TBD	EAST		196																	8								
M25+23	9.4	WEST																								1			
M25+28	12.4	EAST																								1			
M25+43	9.7	WEST																								1			
M25+48	12.5	EAST																								1			
M25+55	35.4	WEST		49																						2			

PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT  
 CITY OF CORTLAND  
 CORTLAND COUNTY, NEW YORK

WTT-13

DATE: 9/30/22  
 DATE: 4/22/22  
 DATE: 4/15/22

REVISIONS: 7, 6, 5, 4, 3, 2, 1

DESCRIPTION: WATER MAIN FITTINGS AND RESTRAINTS TABLE (SHEET 6 OF 13)

ISSUE DATE: FEB. 2022

SCALE: AS SHOWN

DRAWN BY: B. KNIGHTON

PROJECT MANAGER: T. FAULKNER

PROJECT NO.: 200395

FA PROJECT NO.: 200395

STATE OF NEW YORK PROFESSIONAL ENGINEER SEAL: EDWARD W. KOSTOWNIUK, 081517

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DN#SPEC01234567890123456789012345678901234  
 DN#SYTIME0123456 \*TIME\$  
 DN#USERNAME













WATER MAIN FITTINGS & RESTRAINTS TABLE - CONTINUED ON NEXT PAGE

ITEM NUMBER AND DESCRIPTION		ITEM NUMBER AND DESCRIPTION		ITEM NUMBER AND DESCRIPTION		ITEM NUMBER AND DESCRIPTION	
663.1804	BOLTED SLEEVE TYPE COUPLING, 4"	663.1812	BOLTED SLEEVE TYPE COUPLING, 12"	663.2104	WEDGE TYPE MECHANICAL RESTRAINT GLANDS, 4"	663.2112	WEDGE TYPE MECHANICAL RESTRAINT GLANDS, 12"
663.1806	BOLTED SLEEVE TYPE COUPLING, 6"	663.1816	BOLTED SLEEVE TYPE COUPLING, 16"	663.2106	WEDGE TYPE MECHANICAL RESTRAINT GLANDS, 6"	663.2116	WEDGE TYPE MECHANICAL RESTRAINT GLANDS, 16"
663.1808	BOLTED SLEEVE TYPE COUPLING, 8"	663.2001	IRON WATER MAIN FITTINGS (3-8 INCH DIA)	663.2108	WEDGE TYPE MECHANICAL RESTRAINT GLANDS, 8"		
663.1810	BOLTED SLEEVE TYPE COUPLING, 10"	663.2002	IRON WATER MAIN FITTINGS (10-16 INCH DIA)	663.2110	WEDGE TYPE MECHANICAL RESTRAINT GLANDS, 10"		

STATION	OFFSET	SIDE	IRON WATER MAIN FITTINGS (3-8 INCH DIAMETER) (LB)						IRON WATER MAIN FITTINGS (10-16 INCH DIAMETER) (LB)						663.1804 (EA)	663.1806 (EA)	663.1808 (EA)	663.1810 (EA)	663.1812 (EA)	663.1816 (EA)	663.2104 (EA)	663.2106 (EA)	663.2108 (EA)	663.2110 (EA)	663.2112 (EA)	663.2116 (EA)	REMARKS		
			BENDS			TEES	REDUCER	CAP	BENDS			TEES	REDUCER	CAP															
			90°	45°	22.5°				90°	45°	22.5°																		
M30+67	40.5	WEST		49																									
M30+67	TBD	WEST		196																									
M30+84	14.4	WEST																											
M30+95	14.2	WEST																											
M30+97	9.0	WEST																											
M31+00	14.2	WEST																											
M31+08	14.0	WEST																											
M31+11	5.8	EAST																											
M31+12	19.0	WEST																											
M31+14	1.0	EAST																											
M31+17	15.0	WEST																											
M31+17	5.5	EAST																											
M31+19	5.5	EAST																											
M31+26	19.0	WEST																											
M31+26	5.0	EAST																											
M31+26	7.7	WEST																											
M31+33	45.2	EAST																											
M31+39	45.0	EAST																											
M31+42	8.5	WEST																											
M31+48	44.8	EAST																											
M31+54	10.0	WEST																											
M31+58	9.1	WEST																											
M31+62	9.5	WEST																											
M31+68	43.8	EAST																											
M31+74	29.0	WEST																											
M31+74	19.0	WEST	44																										
M31+74	10.0	WEST																											
M31+81	10.4	WEST																											
M31+81	11.0	WEST																											
M31+87	43.0	EAST																											
M31+87	11.0	WEST																											
M31+97	9.6	WEST																											
M31+87	3.2	WEST																											
M31+87	42.8	EAST																											
M31+92	1.0	WEST																											
M31+94	39.4	EAST																											
M31+97	27.0	EAST																											
M31+98	5.3	WEST																											
M32+00	35.7	EAST																											
M32+02	4.5	WEST																											
M32+06	4.4	EAST																											
M32+07	33.0	EAST																											
M32+20	27.0	EAST																											
M32+23	26.9	EAST																											
M32+28	26.4	EAST																											
G7+30	13.2	SOUTH																											
G7+37	13.4	SOUTH																											

DGN#SPEC01234567890123456789012345678901234  
 DGN#SYTIME0123456 \*TIME\$  
 DGN#USERNAME

7	6	5	4	3	2	1	REV	DESCRIPTION	DATE	BAK	BY
								WATERMAIN REDESIGN	9/30/22		
								ADD MP REV ITEM 663.42	4/15/22		
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EA PROJECT NO. 200395 PROJECT MANAGER T. FAULKNER DRAWN BY B. KNIGHTON SCALE AS SHOWN ISSUE DATE FEB. 2022											
PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK TITLE OF DRAWING: WATER MAIN FITTINGS AND RESTRAINTS TABLE (SHEET 12 OF 13)											
DRAWING NO. WTT-19 SHEET 143F1 OF 171											



PLASTIC WATER SERVICE DISPOSITION TABLE

ITEM NUMBER AND DESCRIPTION

663.0603 COPPER WATER SERVICE PIPE, 3" 663.0404 PLASTIC WATER PIPE, 663.2503 WATER SERVICE CONNECTION, 3/4" 663.25000010 RESTORING WATER SERVICE CONNECTIONS 663.1004 RESILIENT WEDGE VALVE & VALVE BOX, 4"  
 663.0604 COPPER WATER SERVICE PIPE, 1" 663.0406 PLASTIC WATER PIPE, 663.2504 WATER SERVICE CONNECTION, 1" 663.2801 WATER METER PIT, TYPE B 663.1006 RESILIENT WEDGE VALVE & VALVE BOX, 6"  
 663.0607 COPPER WATER SERVICE PIPE, 2" 663.0408 PLASTIC WATER PIPE, 663.2507 WATER SERVICE CONNECTION, 2" 663.44 REMOVE AND DISPOSE OF EXISTING WATER SERVICE CONNECTION 663.1008 RESILIENT WEDGE VALVE & VALVE BOX, 8"


STATION	SIDE OF ROAD	EXISTING CORP STOP SIZE	EXISTING SERVICE PIPE MATERIAL	663.0603 (FT)	663.0604 (FT)	663.0607 (FT)	663.0404 (FT)	663.0406 (FT)	663.0408 (FT)	663.25000010 (EA)	663.2503 (FT)	663.2504 (FT)	663.2507 (FT)	663.1004 (EA)	663.1006 (EA)	663.1008 (EA)	663.2801 (EA)	663.44 (EA)	REMARKS
M19+06	WEST	6"	UNKNOWN					45						1				1	
M19+13	WEST	4"	UNKNOWN					49						1				1	
M19+18	EAST	1"	UNKNOWN				66						1					1	
M19+38	WEST	UNKNOWN	UNKNOWN				44						1					1	
M19+38	EAST	3/4"	UNKNOWN				66						1					1	
M19+52	WEST	6"	UNKNOWN					48						1				1	
M19+84	EAST	3/4"	UNKNOWN				56						1					1	
M20+01	EAST	4"	UNKNOWN				62						1					1	
M20+32	EAST	2"	UNKNOWN				66						1					1	
M20+81	EAST	UNKNOWN	UNKNOWN				65						1					1	
M21+27	EAST	UNKNOWN	UNKNOWN				64						1					1	
M21+53	EAST	1"	UNKNOWN				61						1					1	
M21+89	EAST	1"	UNKNOWN				64						1					1	
M21+93	EAST	6"	UNKNOWN					64						1				1	
M22+05	EAST	1"	UNKNOWN				64						1					1	
M22+20	WEST	6"	UNKNOWN					74						1				1	
M22+30	EAST	3/4"	UNKNOWN				67						1					1	
M22+48	EAST	4"	UNKNOWN				66						1					1	
M23+14	WEST	NONE	UNKNOWN				270						1			1			
M23+21	WEST	1"	UNKNOWN						45						1			1	
M23+33	WEST	6"	UNKNOWN					47						1				1	
M25+08	EAST	3/4"	UNKNOWN				70						1					1	
M25+55	WEST	1"	UNKNOWN				45						1					1	
M25+76	EAST	4"	UNKNOWN				66						1					1	
M25+83	WEST	1"	UNKNOWN				46						1					1	
M26+06	EAST	3/4"	UNKNOWN				63						1					1	
M26+12	EAST	3/4"	UNKNOWN				63						1					1	
M26+12	WEST	3/4"	UNKNOWN				43						1					1	
M26+27	WEST	4"	UNKNOWN				45						1					1	
M26+45	WEST	3/4"	UNKNOWN				45						1					1	
M26+52	EAST	3/4"	UNKNOWN				68						1					1	
M26+65	EAST	6"	UNKNOWN					68						1				1	
M26+67	WEST	3/4"	UNKNOWN				45						1					1	
M27+43	WEST	1"	UNKNOWN				45						1					1	
M27+74	EAST	4"	UNKNOWN				64						1					1	
M27+88	EAST	2"	UNKNOWN				64						1					1	
M28+38	WEST	4"	UNKNOWN				41						1					1	
M28+48	WEST	3/4"	UNKNOWN				41						1					1	
M28+57	WEST	3/4"	UNKNOWN				41						1					1	
M28+77	EAST	2"	UNKNOWN						68						1			1	
M29+14	WEST	4"	UNKNOWN				47						1					1	
M29+51	EAST	2"	UNKNOWN				66						1					1	
M29+93	EAST	4"	UNKNOWN				65						1					1	
M30+11	EAST	1"	UNKNOWN					67						1				1	
M30+26	WEST	UNKNOWN	UNKNOWN				41						1					1	
M30+59	EAST	1"	UNKNOWN				71						1					1	
M30+67	WEST	1"	UNKNOWN				48						1					1	
CS12+08	NORTH	3/4"	UNKNOWN				63						1					1	
CS12+25	SOUTH	3"	UNKNOWN				41						1					1	
CS16+04	SOUTH	UNKNOWN	UNKNOWN							1									
CA1+59	NORTH	UNKNOWN	UNKNOWN				25						1					1	
CA2+65	SOUTH	UNKNOWN	UNKNOWN							1									
OS5+58	NORTH	3/4"	UNKNOWN				12						1					1	
OS5+67	NORTH	4"	UNKNOWN				12						1					1	
CS7+36	NORTH	2"	UNKNOWN			21							1					1	
CS8+08	NORTH	3/4"	UNKNOWN	29							1							1	
CS8+73	NORTH	3/4"	UNKNOWN	29							1							1	
CS9+20	NORTH	1"	UNKNOWN		28							1						1	
CS10+09	NORTH	1"	UNKNOWN		60								1					1	
TOTALS				58	88	21	2467	462	113	2	2	2	1	42	8	2	1	56	

NOTES

1. WATER SERVICE LOCATIONS WERE OBTAINED FROM TAP CARDS. APPROPRIATE CONNECTORS, REDUCERS AND COUPLINGS SHALL BE USED TO CONNECT THE PROPOSED SERVICE TO THE EXISTING SERVICE BEHIND THE CURB STOP.
2. ALL EXISTING CURB BOXES TO BE ABANDONED SHALL BE REMOVED BY THE CONTRACTOR. THE COST FOR THIS WORK SHALL BE INCLUDED IN ITEM 663.44
3. THE CONTRACTOR SHALL PLACE THE CURB STOP AS SHOWN ON DRAWING D-01.
4. THE CONTRACTOR SHALL SET CURB STOPS ON A SOLID CONCRETE BRICK. THE COST OF THE CONCRETE BRICK SHALL BE INCLUDED IN THE PRICE FOR THE CURB STOP ITEM 663.2503, 663.2504 and 663.2507.
5. THE COST FOR REMOVAL OF DISINFECTION / BLOW-OFF / SAMPLING TAP, PIPE REMOVAL AND BRASS PLUG TO BE INCLUDED IN VARIOUS WATER MAIN ITEMS.
6. COST FOR CONNECTING TO THE EXISTING AIR RELEASE VALVE TO BE INCLUDED IN WATER SERVICE CONNECTION.

THIS SHEET SUPERSEDES SHEET 145A2

PROJECT NO.	200395
PROJECT MANAGER	T. FAULKNER
DRAWN BY	B. KNIGHTON
SCALE	AS SHOWN
ISSUE DATE	FEB. 2022
DATE	9/30/22
WATERMAIN REDESIGN	9/30/22
REV QUANTITY #	4/22/22
ADD #	663.2316 REV 663.42
DESCRIPTION	
BY	
DATE	
REV	
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3	
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 PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND COUNTY, NEW YORK
   
 TITLE OF DRAWING: WATER SERVICE DISPOSITION TABLE (SHEET 1 OF 1)
   
 DRAWING NO.: WTT-21
   
 SHEET 145F1 OF 171

DGN#SPEL01234567890123456789012345678901234  
 DGN#SYTIME0123456 \*TIME\$  
 DGN#USERNAME

MISCELLANEOUS APPURTANCES WATER LINE TABLE - CONTINUED ON NEXT PAGE

ITEM NUMBERS & DESCRIPTION	402.428904	TEMPORARY TOP COURSE, HMA, 80 SERIES	663.2306	POLYETHYLENE ENCASUREMENT FOR WATER MAINS
304.15 SUBBASE COURSE	520.09000010	SAW CUTTING ASPHALT CONCRETE	663.2308	POLYETHYLENE ENCASUREMENT FOR WATER MAINS
620.0802 BEDDING MATERIAL, TYPE 2	520.55000015	SAW CUTTING CONCRETE PAVEMENT	663.2310	POLYETHYLENE ENCASUREMENT FOR WATER MAINS
203.07 SELECT GRANULAR BACKFILL	609.15000008	SAWCUT CURB	663.2312	POLYETHYLENE ENCASUREMENT FOR WATER MAINS
206.0201 TRENCH AND CULVERT EXCAVATION	663.2304	POLYETHYLENE ENCASUREMENT FOR WATER MAINS	663.2316	POLYETHYLENE ENCASUREMENT FOR WATER MAINS

FROM STATION	OFFSET	TO STATION	OFFSET	SIDE	304.15 (CY)	620.0802 (CY)	203.07 (CY)	206.0201 (CY)	402.428904 (TON)	520.09000010 (LF)	520.55000015 (LF)	609.15000008 (LF)	663.2304 (LF)	663.2306 (LF)	663.2308 (LF)	663.2310 (LF)	663.2312 (LF)	663.2316 (LF)	REMARKS
M17+60	11.50	M23+96	0+12.00	WEST	35.3	70.7	358.3	358.3	86	1272			0	0	0	0	636	0	
T7+21	14.00	T7+80	0+21.36	NORTH	3.7	7.3	37.1	37.1	9	132			0	0	0	66	0	0	
T7+82	43.00	T8+56	0+07.00	NORTH	4.8	9.6	48.7	48.7	12	137	36		0	0	0	0	86	0	
C1+72	1.00	C2+29	0+03.00	NORTH	3.2	6.4	32.6	32.6	8	116			0	0	58	0	0	0	
M18+65	7.00	M18+85	0+05.80	WEST	1.1	2.2	11.3	11.3	3	40			0	0	0	0	20	0	
M18+85	5.80	M18+88	0+08.50	WEST	0.2	0.4	2.3	2.3	1	8			0	0	0	0	4	0	
M18+88	8.50	M23+96	0+08.00	WEST	39.2	78.4	397.3	397.3	95	1411			0	0	0	0	705	0	
M23+97	12.00	M23+99	0+14.00	WEST	0.2	0.4	2.3	2.3	1	8			0	0	0	0	4	0	
M23+97	8.00	M24+01	0+04.00	WEST	0.3	0.7	3.4	3.4	1	12			0	0	0	0	6	0	
M23+99	14.00	M24+27	0+14.00	WEST	1.6	3.1	15.8	15.8	4	56			0	0	0	0	28	0	
M24+01	4.00	M24+27	0+04.00	WEST	1.4	2.9	14.6	14.6	4	52			0	0	0	0	26	0	
M24+27	8.00	M24+74	0+08.00	WEST	2.6	5.2	26.5	26.5	6	94			0	0	0	0	47	0	
M24+27	12.00	M24+75	0+12.00	WEST	2.7	5.3	27.0	27.0	6	96			0	0	0	0	48	0	
M24+74	8.00	M24+76	0+06.00	WEST	0.2	0.4	2.3	2.3	1	8			0	0	0	0	4	0	
M24+75	12.00	M24+78	0+10.00	WEST	0.2	0.4	2.3	2.3	1	8			0	0	0	0	4	0	
M24+76	6.00	M24+85	0+06.00	WEST	0.5	1.0	5.1	5.1	1	18			0	0	0	0	9	0	
M24+78	10.00	M24+88	0+10.00	WEST	0.9	1.8	9.0	9.0	2	32			0	0	0	0	16	0	
M24+85	6.00	M24+88	0+08.00	WEST	0.2	0.3	1.7	1.7	0	6			0	0	0	0	3	0	
M24+88	10.00	M24+91	0+12.00	WEST	0.2	0.3	1.7	1.7	0	6			0	0	0	0	3	0	
M24+88	8.00	M29+44	0+09.00	WEST	25.3	50.7	256.9	256.9	62	912			0	0	0	0	456	0	
M24+91	12.00	M29+43	0+13.00	WEST	25.1	50.2	254.6	254.6	61	904			0	0	0	0	452	0	
M29+44	9.00	M29+47	0+06.00	WEST	0.2	0.3	1.7	1.7	0	6			0	0	0	0	3	0	
M29+43	13.00	M29+46	0+16.00	WEST	0.2	0.3	1.7	1.7	0	6			0	0	0	0	3	0	
M29+47	6.00	M29+57	0+06.00	WEST	0.6	1.1	5.6	5.6	1	20			0	0	0	0	10	0	
M29+46	16.00	M29+56	0+16.00	WEST	0.6	1.1	5.6	5.6	1	20			0	0	0	0	10	0	
M29+57	6.00	M29+60	0+09.00	WEST	0.2	0.3	1.7	1.7	0	6			0	0	0	0	3	0	
M29+56	16.00	M29+60	0+13.00	WEST	0.2	0.3	1.7	1.7	0	6			0	0	0	0	3	0	
M29+60	9.00	M30+95	0+10.00	WEST	7.5	15.0	76.1	76.1	18	270			0	0	0	0	135	0	
M29+60	13.00	M31+07	0+14.00	WEST	8.2	16.3	82.8	82.8	20	294			0	0	0	0	147	0	
M30+95	10.00	M31+12	0+06.00	EAST	1.3	2.6	13.0	13.0	3	46			0	0	0	0	23	0	
M31+07	14.00	M31+12	0+19.00	WEST	0.4	0.8	3.9	3.9	1	14			0	0	0	0	7	0	
M31+12	6.00	M31+27	0+06.00	EAST	0.8	1.7	8.5	8.5	2	30			0	0	0	0	15	0	
M31+12	19.00	M31+27	0+19.00	WEST	0.8	1.7	8.5	8.5	2	30			0	0	0	0	15	0	
CS10+64	16.00	CS11+29	0+11.00	SOUTH	3.9	7.8	39.4	39.4	9	140			0	0	0	0	0	70	
CS11+29	11.00	CS12+64	0+17.00	SOUTH	7.6	15.1	76.6	76.6	18	272			0	0	0	0	0	136	
CS12+13	12.00	CS12+63	0+16.00	SOUTH	3.3	6.7	33.8	33.8	8	120			0	0	0	0	0	60	
CS12+22	0.00	CS12+45	0+13.00	NORTH	1.6	3.1	15.8	15.8	4	56			0	0	28	0	0	0	
CA0+91	0.00	CA1+74	0+04.00	SOUTH	4.7	9.4	47.9	47.9	11	170			0	0	85	0	0	0	
OS5+36	9.00	OS5+41	0+10.00	NORTH	0.4	0.8	4.0	4.0	1	14			0	0	7	0	0	0	
OS5+41	10.00	OS5+46	0+04.00	NORTH	0.3	0.5	2.6	2.6	1	9			0	0	5	0	0	0	
OS5+46	4.00	OS6+31	0+04.00	NORTH	4.7	9.4	47.9	47.9	11	170			0	0	85	0	0	0	
G7+31	13.00	G8+50	0+25.00	SOUTH	7.0	14.0	71.0	71.0	17	252			0	0	0	0	126	0	
M31+27	45.00	M32+28	0+26.00	EAST	5.7	11.5	58.2	58.2	14	206			0	0	0	0	103	0	
M31+26	8.00	M32+06	0+04.00	WEST	4.7	9.5	48.1	48.1	12	171			0	0	0	0	85	0	
M18+01	12.00	M18+02	0+54.00	EAST	3.7	7.3	37.2	37.2	9	94	38		0	66	0	0	0	0	
T7+37	20.00	T7+36	0+32.00	NORTH	0.6	1.3	6.4	6.4	2	11	12		0	11	0	0	0	0	

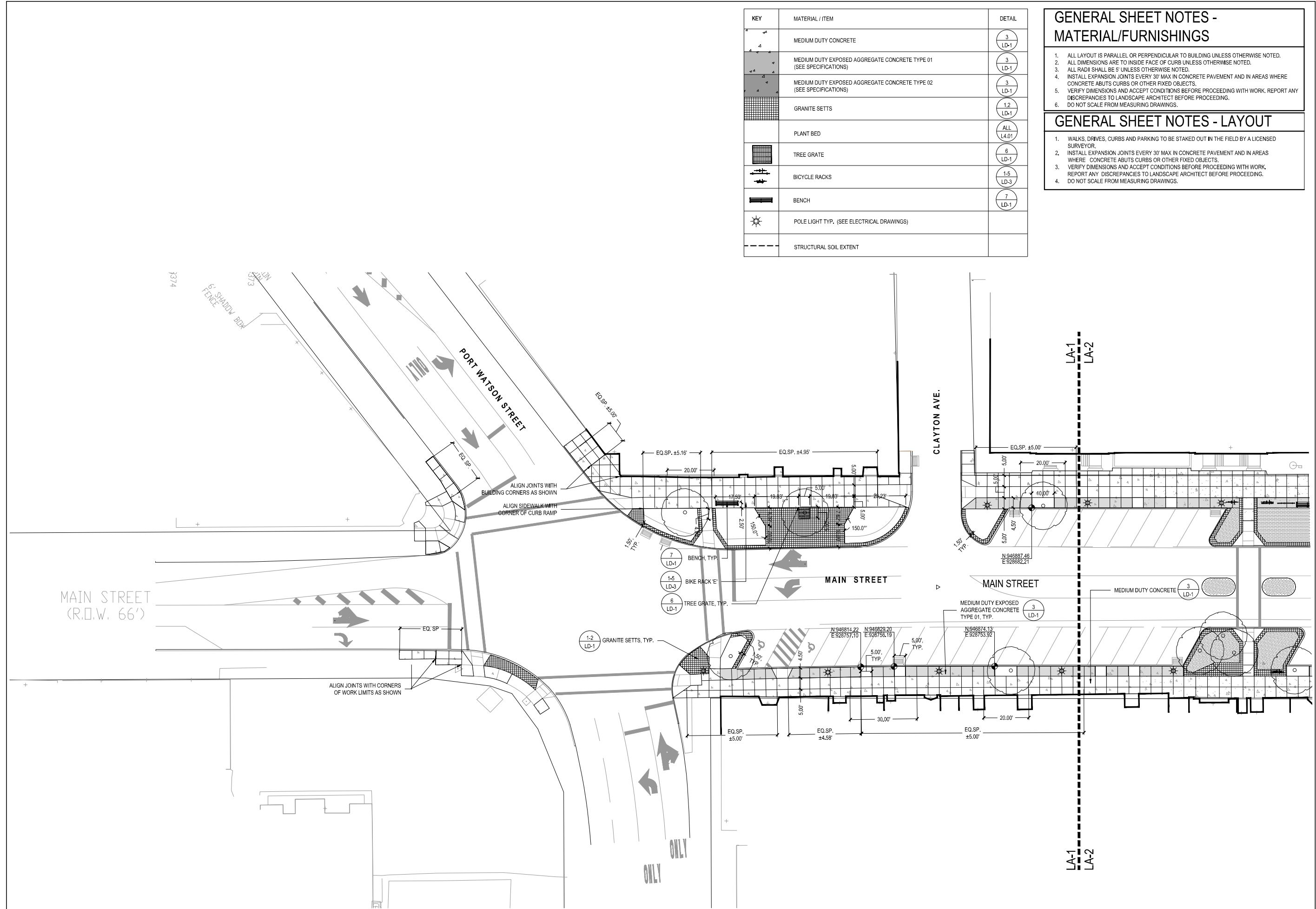
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 DGN#USERNAME



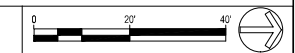
KEY	MATERIAL / ITEM	DETAIL
	MEDIUM DUTY CONCRETE	3 LD-1
	MEDIUM DUTY EXPOSED AGGREGATE CONCRETE TYPE 01 (SEE SPECIFICATIONS)	3 LD-1
	MEDIUM DUTY EXPOSED AGGREGATE CONCRETE TYPE 02 (SEE SPECIFICATIONS)	3 LD-1
	GRANITE SETTS	1.2 LD-1
	PLANT BED	ALL L4.01
	TREE GRATE	6 LD-1
	BICYCLE RACKS	1-5 LD-3
	BENCH	7 LD-1
	POLE LIGHT TYP. (SEE ELECTRICAL DRAWINGS)	
	STRUCTURAL SOIL EXTENT	

- ### GENERAL SHEET NOTES - MATERIAL/FURNISHINGS
- ALL LAYOUT IS PARALLEL OR PERPENDICULAR TO BUILDING UNLESS OTHERWISE NOTED.
  - ALL DIMENSIONS ARE TO INSIDE FACE OF CURB UNLESS OTHERWISE NOTED.
  - ALL RADII SHALL BE 5' UNLESS OTHERWISE NOTED.
  - INSTALL EXPANSION JOINTS EVERY 30' MAX IN CONCRETE PAVEMENT AND IN AREAS WHERE CONCRETE ABUTS CURBS OR OTHER FIXED OBJECTS.
  - VERIFY DIMENSIONS AND ACCEPT CONDITIONS BEFORE PROCEEDING WITH WORK. REPORT ANY DISCREPANCIES TO LANDSCAPE ARCHITECT BEFORE PROCEEDING.
  - DO NOT SCALE FROM MEASURING DRAWINGS.
- ### GENERAL SHEET NOTES - LAYOUT
- WALKS, DRIVES, CURBS AND PARKING TO BE STAKED OUT IN THE FIELD BY A LICENSED SURVEYOR.
  - INSTALL EXPANSION JOINTS EVERY 30' MAX IN CONCRETE PAVEMENT AND IN AREAS WHERE CONCRETE ABUTS CURBS OR OTHER FIXED OBJECTS.
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PROJECT	DOWNTOWN MAIN STREET REVITALIZATION PROJECT
P.I.N.	6754-95
CITY OF	CORTLAND
COUNTY	CORTLAND COUNTY, NEW YORK
TITLE OF DRAWING	LANDSCAPE PLAN
DRAWING NO.	LA-1
PROJECT NO.	190237
PROJECT MANAGER	T. FAULKNER
DESIGNED BY	J. GROSS, J. BRATH
SCALE	AS SHOWN
ISSUE DATE	MAR. 2022
DATE	
DESCRIPTION	
REV	
BY	

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**A** CITY OF CORTLAND MAIN STREET REVITALIZATION - LAYOUT AND MATERIALS PLAN

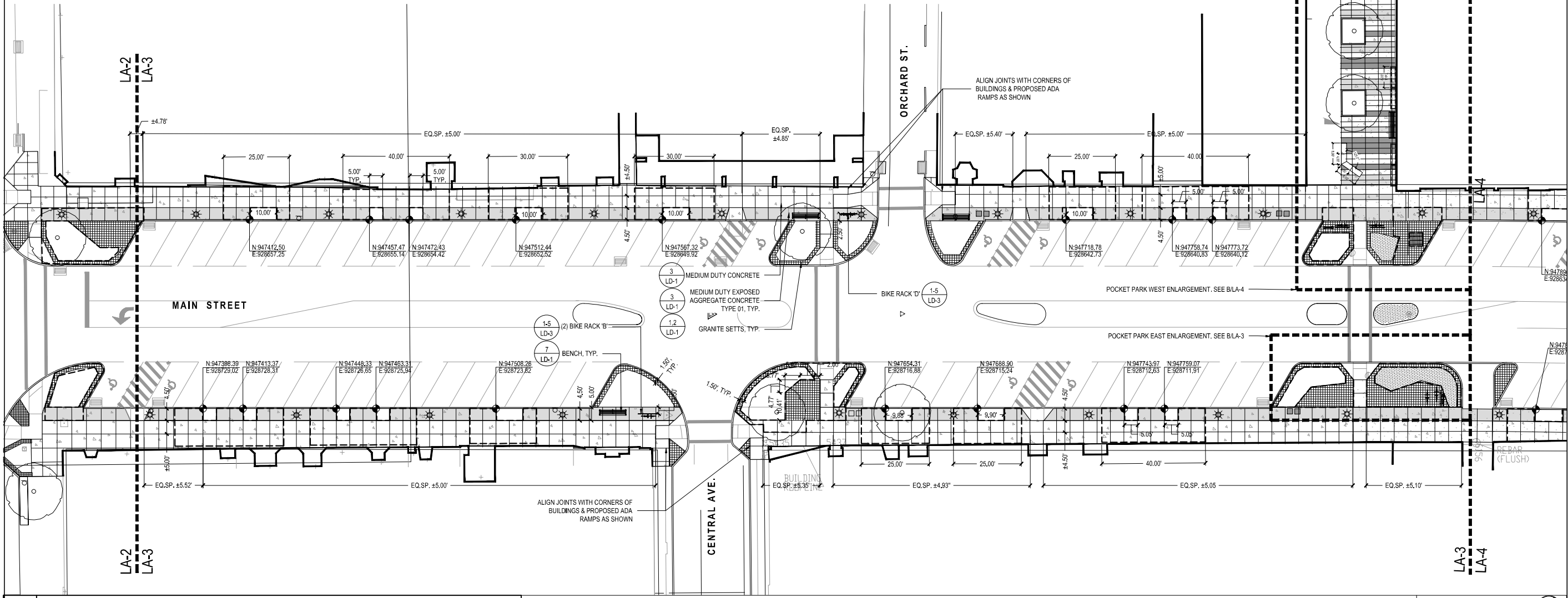
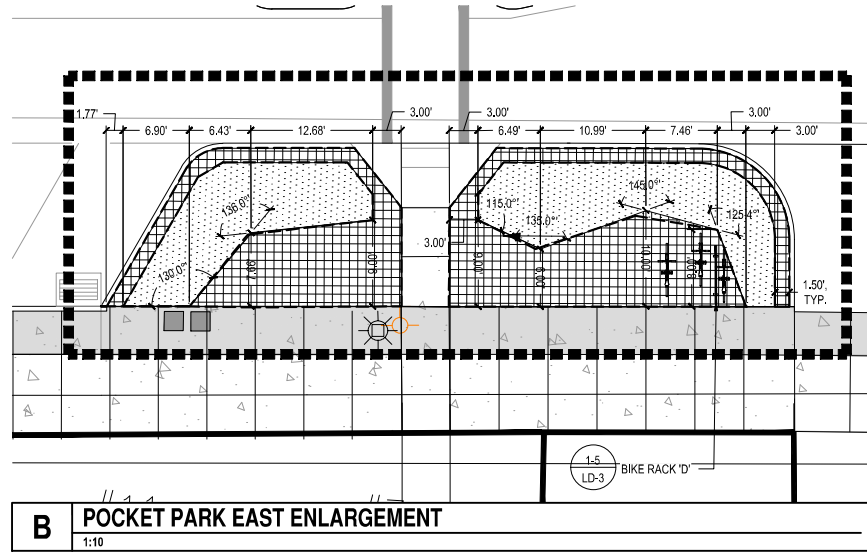




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 DGN#USERNAME

KEY	MATERIAL / ITEM	DETAIL
	MEDIUM DUTY CONCRETE	3 LD-1
	MEDIUM DUTY EXPOSED AGGREGATE CONCRETE TYPE 01 (SEE SPECIFICATIONS)	3 LD-1
	MEDIUM DUTY EXPOSED AGGREGATE CONCRETE TYPE 02 (SEE SPECIFICATIONS)	3 LD-1
	GRANITE SETTS	1.2 LD-1
	PLANT BED	ALL L4.01
	TREE GRATE	6 LD-1
	BICYCLE RACKS	1-5 LD-3
	BENCH	7 LD-1
	POLE LIGHT TYP. (SEE ELECTRICAL DRAWINGS)	
	STRUCTURAL SOIL EXTENT	

- ### GENERAL SHEET NOTES - MATERIAL/FURNISHINGS
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  - DO NOT SCALE FROM MEASURING DRAWINGS.
- ### GENERAL SHEET NOTES - LAYOUT
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  - DO NOT SCALE FROM MEASURING DRAWINGS.



7	6	5	4	3	2	1	REV	DESCRIPTION	DATE	BY

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 P.E., L.S., L.A., D.P.C.  
 New York State Education Law Section  
 1902.37 requires that the seal of the  
 professional engineer or architect be  
 placed on all drawings prepared by  
 the professional engineer or architect  
 and that the seal be placed on all  
 drawings prepared by the professional  
 engineer or architect. The seal of the  
 professional engineer or architect  
 shall be placed on all drawings  
 prepared by the professional engineer  
 or architect. The seal of the  
 professional engineer or architect  
 shall be placed on all drawings  
 prepared by the professional engineer  
 or architect.

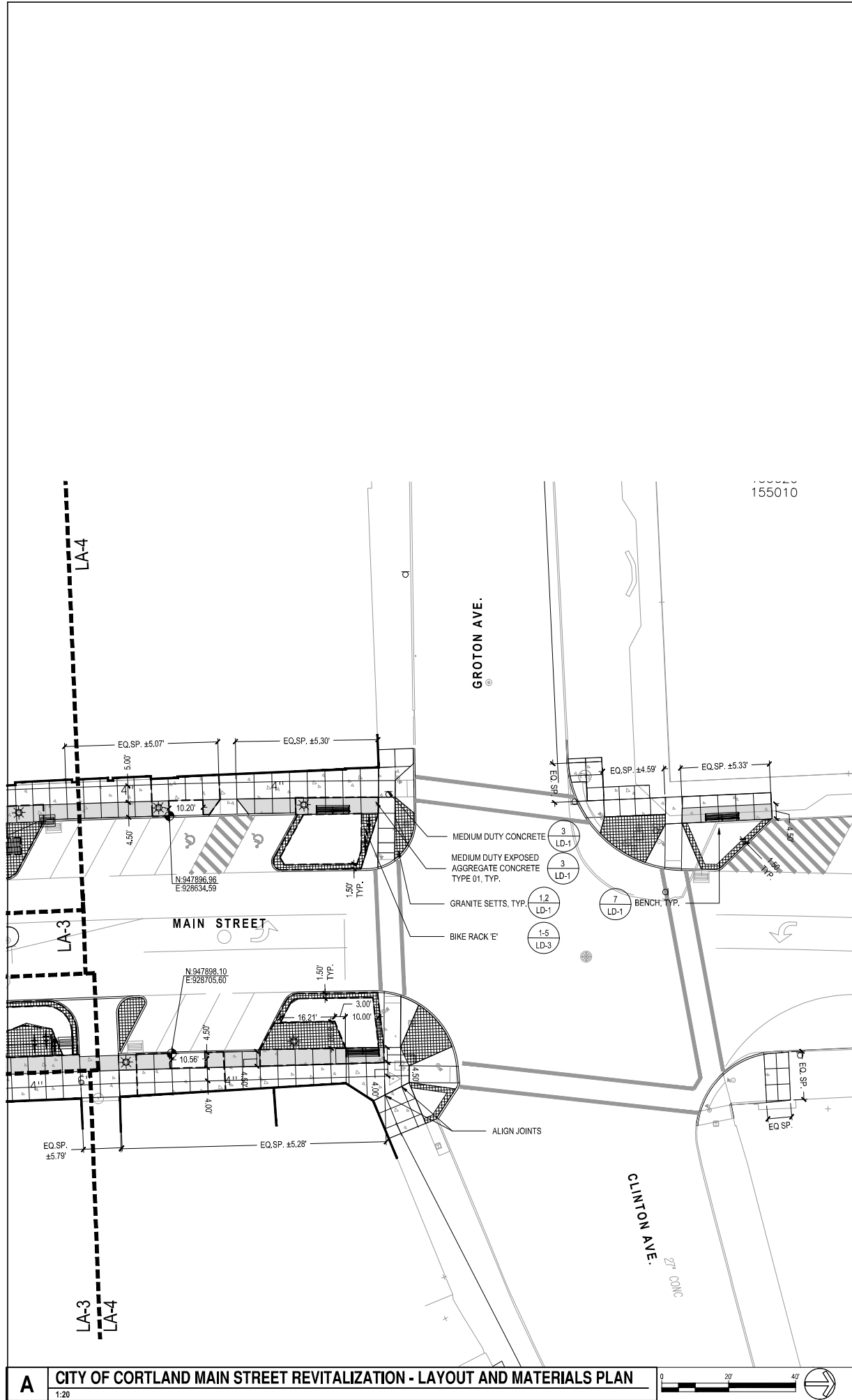
FA PROJECT NO.  
 190237  
 PROJECT MANAGER  
 T. FAULKNER  
 DRAWN BY  
 J. GROSS, J. BRATH  
 SCALE  
 AS SHOWN  
 ISSUE DATE  
 MAR. 2022

**FISHER ASSOCIATES**  
 LANDSCAPE ARCHITECTS  
 100 N. STATE ST., SUITE 200  
 CORTLAND, NY 13828  
 PHONE 607.757.1770  
 WWW.FISHERASSOC.COM

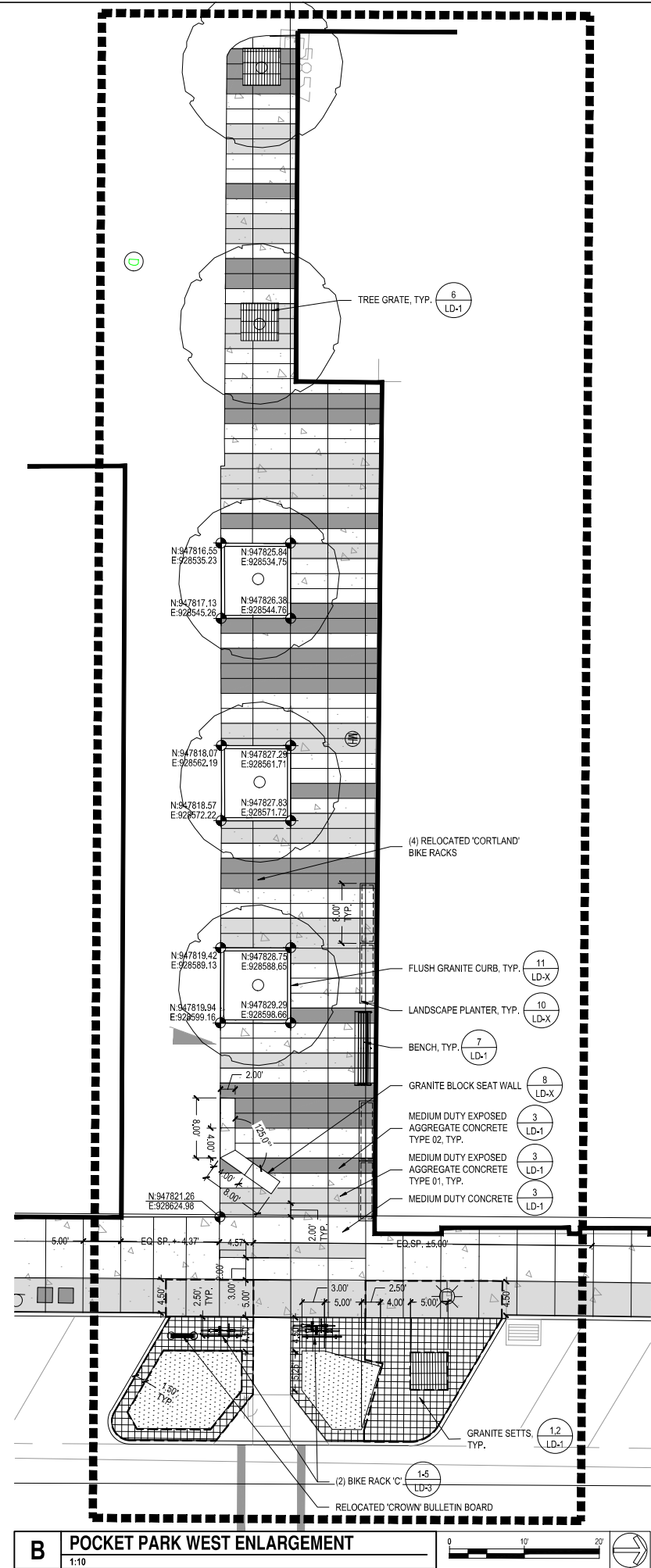
PROJECT  
 DOWNTOWN MAIN STREET  
 REVITALIZATION PROJECT  
 P.I.N. 6754-95  
 CITY OF CORTLAND  
 CORTLAND COUNTY, NEW YORK  
 TITLE OF DRAWING  
 LANDSCAPE PLAN

DRAWING NO.  
**LA-3**  
 SHEET 151 OF 169

DGN#SPEC01234567890123456789012345678901234  
 DGN#SYTIME0123456 \$TIME\$  
 DGN#USERNAME



**A CITY OF CORTLAND MAIN STREET REVITALIZATION - LAYOUT AND MATERIALS PLAN**  
 1:20



**B POCKET PARK WEST ENLARGEMENT**  
 1:10

**GENERAL SHEET NOTES - MATERIAL/FURNISHINGS**

1. ALL LAYOUT IS PARALLEL OR PERPENDICULAR TO BUILDING UNLESS OTHERWISE NOTED.
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6. DO NOT SCALE FROM MEASURING DRAWINGS.

**GENERAL SHEET NOTES - LAYOUT**

1. WALKS, DRIVES, CURBS AND PARKING TO BE STAKED OUT IN THE FIELD BY A LICENSED SURVEYOR.
2. INSTALL EXPANSION JOINTS EVERY 30' MAX IN CONCRETE PAVEMENT AND IN AREAS WHERE CONCRETE ABUTS CURBS OR OTHER FIXED OBJECTS.
3. VERIFY DIMENSIONS AND ACCEPT CONDITIONS BEFORE PROCEEDING WITH WORK. REPORT ANY DISCREPANCIES TO LANDSCAPE ARCHITECT BEFORE PROCEEDING.
4. DO NOT SCALE FROM MEASURING DRAWINGS.

KEY	MATERIAL / ITEM	DETAIL
[Symbol]	MEDIUM DUTY CONCRETE	3 LD-1
[Symbol]	MEDIUM DUTY EXPOSED AGGREGATE CONCRETE TYPE 01 (SEE SPECIFICATIONS)	3 LD-1
[Symbol]	MEDIUM DUTY EXPOSED AGGREGATE CONCRETE TYPE 02 (SEE SPECIFICATIONS)	3 LD-1
[Symbol]	GRANITE SETTS	1.2 LD-1
[Symbol]	PLANT BED	ALL L4.01
[Symbol]	TREE GRATE	6 LD-1
[Symbol]	BICYCLE RACKS	1-5 LD-3
[Symbol]	BENCH	7 LD-1
[Symbol]	POLE LIGHT TYP. (SEE ELECTRICAL DRAWINGS)	
[Symbol]	STRUCTURAL SOIL EXTENT	

PROJECT: DOWNTOWN MAIN STREET REVITALIZATION PROJECT  
 P.I.N. 6754-95  
 CITY OF CORTLAND  
 CORTLAND COUNTY, NEW YORK  
 TITLE OF DRAWING: LANDSCAPE PLAN  
 DRAWING NO.: **LA-4**  
 SHEET 152 OF 169

FA PROJECT NO.: 190237  
 PROJECT MANAGER: T. FAULKNER  
 DRAWN BY: J. GROSS, J. BRATH  
 SCALE: AS SHOWN  
 ISSUE DATE: MAR. 2022

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REV	DESCRIPTION	DATE	BY
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**PLANTING COMPOSITION SCHEDULE**

**CITY OF CORTLAND MAIN STREET**

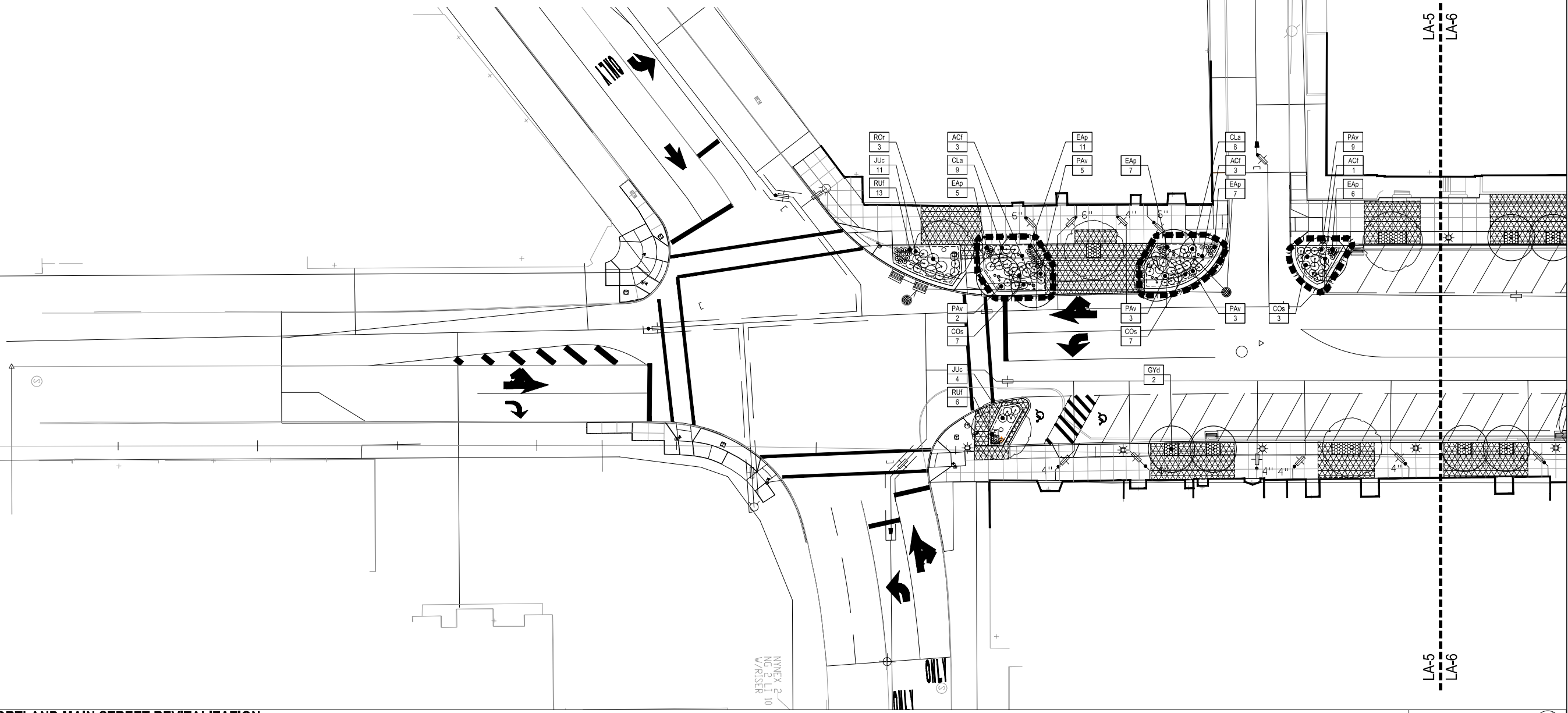
KEY	SPECIES QUANTITY	BOTANICAL NAME	COMMON NAME	UNIT	SIZE	INDIVIDUAL MIN. SPACING O.C.	NOTES
<b>TREES</b>							
ACf	15	ACER X FREEMANII 'AUTUMN BLAZE'	FREEMAN MAPLE	B&B	7-8 FT	10'	MULTI-STEM
Glb	14	GINKGO BILOBA 'AUTUMN GOLD'	GINKGO TREE	B&B	2-2.5" CAL	10'	4' MIN. CLEAR TRUNK
GYd	24	GYMNOCALADUS DIOICUS 'ESPRESSO'	KENTUCKY COFFEE TREE	B&B	2-2.5" CAL	15'	4' MIN. CLEAR TRUNK
ULd	7	ULMUS DAVIDIANA VAR. JAPONICA 'MORTON'	ACCOLADE ELM	B&B	2-2.5" CAL	15'	4' MIN. CLEAR TRUNK
QUm	7	QUERCUS MUEHLENBERGII	CHINKAPIN OAK	B&B	1.5"-2" CAL	15'	4' MIN. CLEAR TRUNK
	67	TOTAL TREES					
<b>SHRUBS</b>							
ARm	90	ARONIA MELANOCARPA 'GROUND HUG'	GROUND HUG DWARF CHOKEBERRY	1 GAL CONT	8-14"	3'	SMALL SHRUB
CLa	61	CLETRHA ALNIFOLIA 'HUMMINGBIRD'	HUMMINGBIRD CLETHRA	2 GAL CONT	8-14"	30"	SMALL SHRUB - BIORETENTION
COs	62	CORNUS SERICEA 'KELSEY'	KELSEY'S DWARF RED OSIER DOGWOOD	3 GAL CONT	18-24"	3'	SMALL SHRUB
JUc	72	JUNIPERUS CONFERTA 'BLUE PACIFIC'	BLUE PACIFIC SHORE JUNIPER	3 GAL CONT	18-24"	3'	SMALL SHRUB
RHa	94	RHUS AROMATICA 'GRO-LO'	GRO LO DWARF FRAGRANT SUMAC	3 GAL CONT	18-24"	3'	MEDIUM SHRUB
ROr	15	ROSA RUGOSA 'FRAU DAGMAR HASTRUP'	FRAU DAGMAR HASTRUP SALTSPRAY ROSE	3 GAL CONT	18-24"	3'	MEDIUM SHRUB
	394	TOTAL SHRUBS					
<b>PERENNIALS</b>							
EAp	87	ECHINACEA PURPUREA 'RUBY STAR'	RUBY STAR CONEFLOWER	1 GAL CONT		18"	BIORETENTION
PAv	65	PANICUM VIRGATUM 'SHENANDOAH'	SHENANDOAH SWITCHGRASS	1 GAL CONT		30"	BIORETENTION
PEa	4	PEROVSKIA ATRIPLICIFOLIA 'LITTLE SPIRE'	RUSSIAN SAGE	1 GAL CONT		18"	
RUF	125	RUDBECKIA FULGIDA 'GOLDSTURM'	GOLDSTURM BLACK-EYED SUSAN	1 GAL CONT		18"	BIORETENTION
SEs	94	SEDUM SPECTABILE 'AUTUMN JOY'	AUTUMN JOY SEDUM	1 GAL CONT		18"	
	288	TOTAL PERENNIALS					

**PLANTING LEGEND**

SYMBOL	DESCRIPTION	DETAIL
(Circle with dot)	EXISTING TREE TO REMAIN / AIR SPADE EXISTING ROOTS TO PAVEMENT INSTALLATION PER SPEC AND DIRECTION OF LANDSCAPE ARCHITECT	
(Circle with cross)	TREE PLANTING (DECIDUOUS / SINGLE STEM)	(1-2) LD-2
(Circle with 'r')	TREE PLANTING (DECIDUOUS / MULTI-STEM)	(1-2) LD-2
(Cluster of circles)	SHRUB PLANTING	(4) LD-2
(Grid pattern)	PERENNIAL PLANTING	(4) LD-2
(Dashed circle)	TREE PIT NEW TREES: TOPSOIL & MULCH PER DETAIL; EXISTING TREES: FURNISH TOPSOIL AS NEEDED & 3" MULCH	(1) LD-2
(Cross-hatch pattern)	STRUCTURAL SOIL	(1) LD-2
(Dashed rectangle)	BIOSWALE	(3) LD-2

**GENERAL SHEET NOTES - PLANTING**

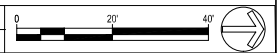
- ALL PLANTING BEDS TO BE PREPARED AS SPECIFIED. SHRUB BEDS TO BE PREPARED IN THEIR ENTIRETY WITH PLANTING SOIL MIX. TREE PITS TO BE DUG TO DEPTH OF ROOTBALL BY 3X THE DIAMETER.
- AFTER BEDS ARE PREPARED, THE LANDSCAPE CONTRACTOR IS TO LOCATE TREES, SHRUBS AND VINES AS SHOWN ON PLANS. TREE, SHRUB AND PERENNIAL LOCATIONS ARE TO BE APPROVED BY LANDSCAPE ARCHITECT BEFORE THEY ARE PLANTED.
- NO PLANTS ARE TO BE PLANTED UNDER ROOF OVERHANGS OR CANOPIES.
- ALL TREES AND PLANTS TO COMPLY WITH APPLICABLE REQUIREMENTS OF ANSI Z60.1 "AMERICAN STANDARD FOR NURSERY STOCK".
- MAINTAIN AND WARRANTY ALL LIVING PLANT MATERIAL AS PER SPECIFICATIONS.
- ALL EXISTING TREES TO REMAIN WITHIN THE CONTRACT LIMIT LINE TO BE PROTECTED DURING CONSTRUCTION. SEE DEMOLITION PLANS.
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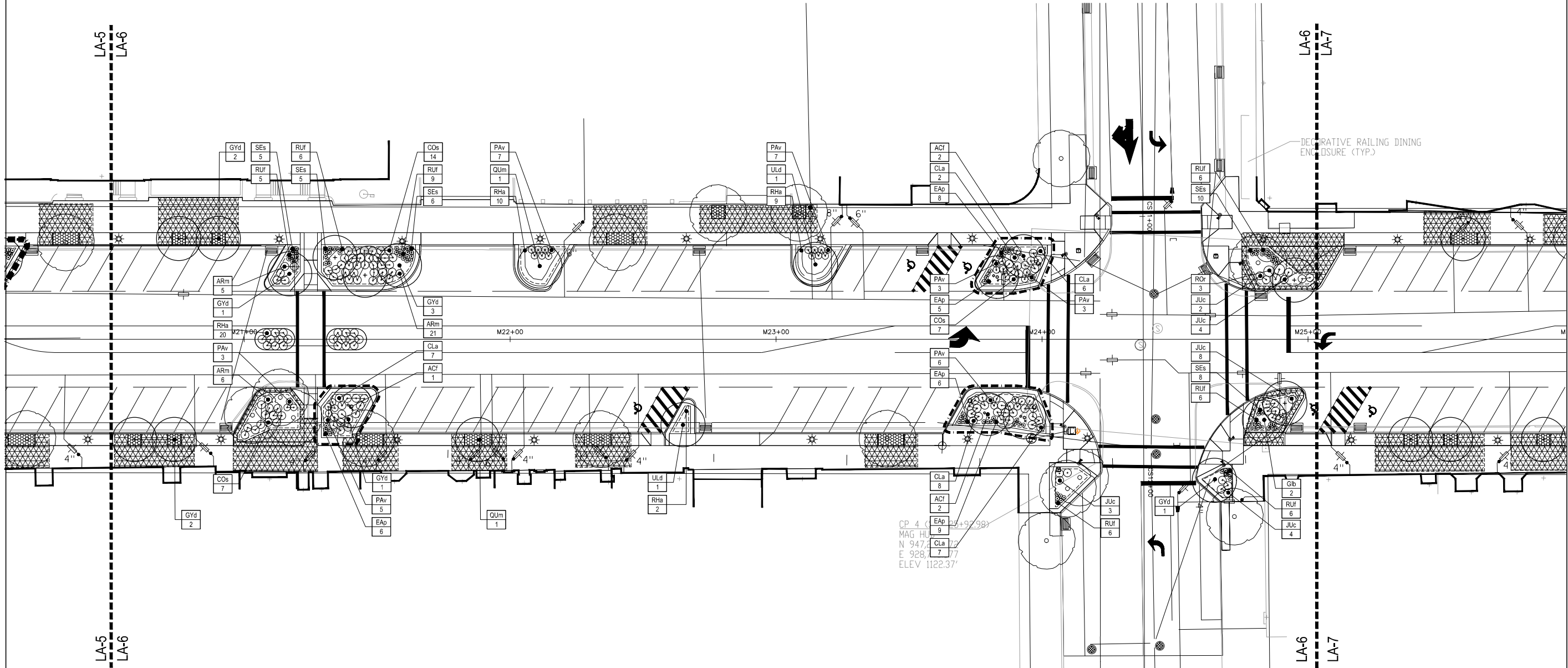
**CITY OF CORTLAND MAIN STREET REVITALIZATION**

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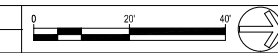
PROJECT: DOWNTOWN MAIN STREET REVITALIZATION PROJECT P.I.N. 6754.95 CITY OF CORTLAND CORTLAND COUNTY, NEW YORK		TITLE OF DRAWING: <b>PLANTING PLAN</b>	
DRAWING NO. <b>LA-5</b>		SHEET 153 OF 169	
PROJECT NO. 190237 PROJECT MANAGER: T. FAULKNER DRAWN BY: J. GROSS, J. BRATH SCALE: AS SHOWN ISSUE DATE: MAR. 2022		TMAA LANDSCAPE ARCHITECTS 100 N. STATE ST. SUITE 201 CORTLAND, NY 13820	
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CITY OF CORTLAND MAIN STREET REVITALIZATION

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PLANTING LEGEND		DETAIL
	EXISTING TREE TO REMAIN / AIR SPADE EXISTING ROOTS PRIOR TO PAVEMENT INSTALLATION PER SPEC AND DIRECTION OF LANDSCAPE ARCHITECT	
	TREE PLANTING (DECIDUOUS / SINGLE STEM)	(1-2) LD-2
	TREE PLANTING (DECIDUOUS / MULTI-STEM)	(1-2) LD-2
	SHRUB PLANTING	(4) LD-2
	PERENNIAL PLANTING	(4) LD-2
	TREE PIT NEW TREES: TOPSOIL & MULCH PER DETAIL; EXISTING TREES: FURNISH TOPSOIL AS NEEDED & 3" MULCH	(1) LD-2
	STRUCTURAL SOIL	(1) LD-2
	BIOSWALE	(3) LD-2

- ### GENERAL SHEET NOTES - PLANTING
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PROJECT	DOWNTOWN MAIN STREET REVITALIZATION PROJECT
P.I.N.	6754.95
CITY OF	CORTLAND
COUNTY	CORTLAND COUNTY, NEW YORK
TITLE OF DRAWING	PLANTING PLAN
DRAWING NO.	LA-6
SHEET	154 OF 169
FA PROJECT NO.	190237
PROJECT MANAGER	T. FAULKNER
DRAWN BY	J. GROSS, J. BRATH
SCALE	AS SHOWN
ISSUE DATE	MAR. 2022
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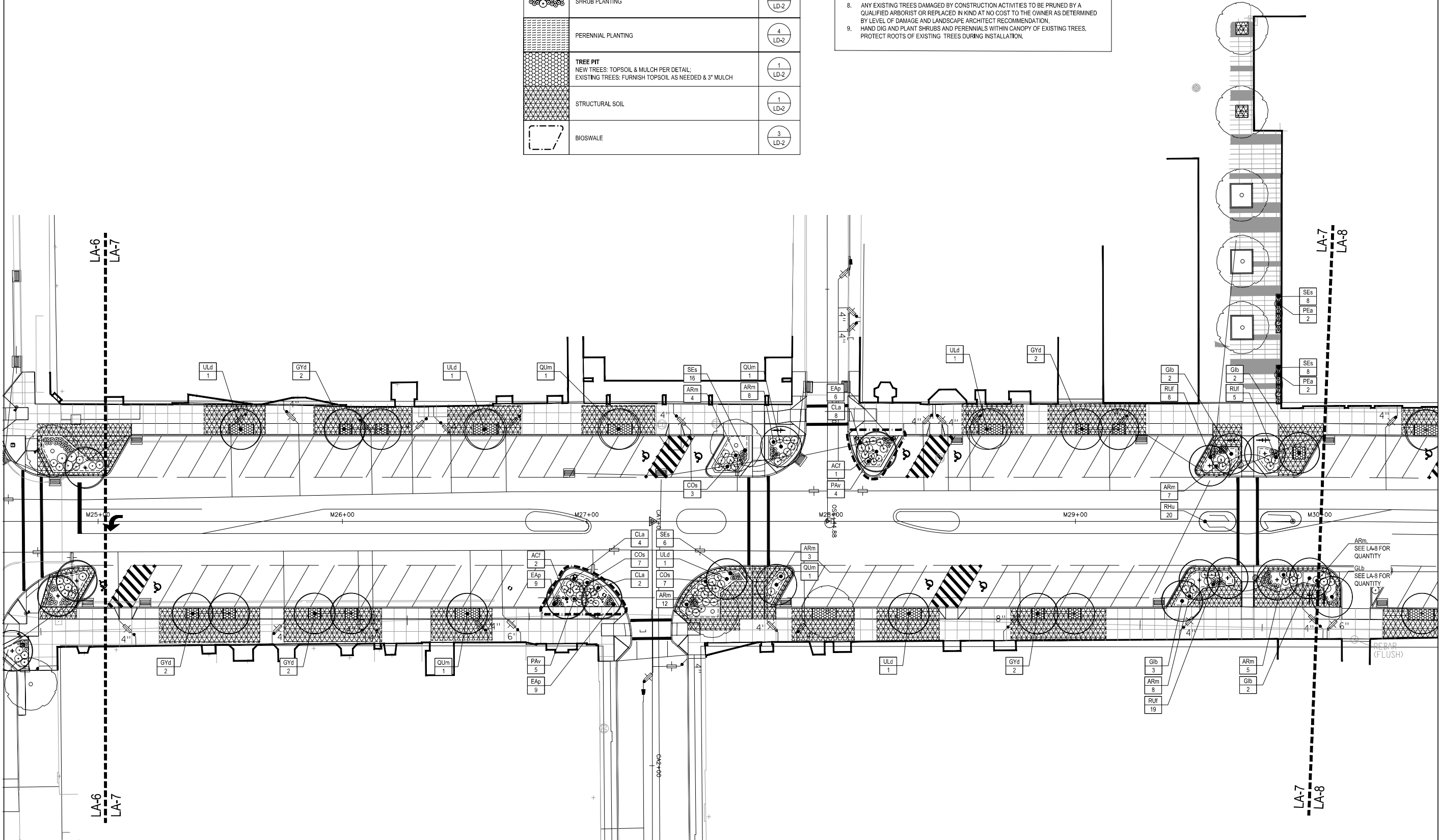
**CITY OF CORTLAND MAIN STREET REVITALIZATION**

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PLANTING LEGEND		DETAIL
	EXISTING TREE TO REMAIN / AIR SPADE EXISTING ROOTS PRIOR TO PAVEMENT INSTALLATION PER SPEC AND DIRECTION OF LANDSCAPE ARCHITECT	
	TREE PLANTING (DECIDUOUS / SINGLE STEM)	1-2 LD-2
	TREE PLANTING (DECIDUOUS / MULTI-STEM)	1-2 LD-2
	SHRUB PLANTING	4 LD-2
	PERENNIAL PLANTING	4 LD-2
	TREE PIT NEW TREES: TOPSOIL & MULCH PER DETAIL; EXISTING TREES: FURNISH TOPSOIL AS NEEDED & 3" MULCH	1 LD-2
	STRUCTURAL SOIL	1 LD-2
	BIOSWALE	3 LD-2

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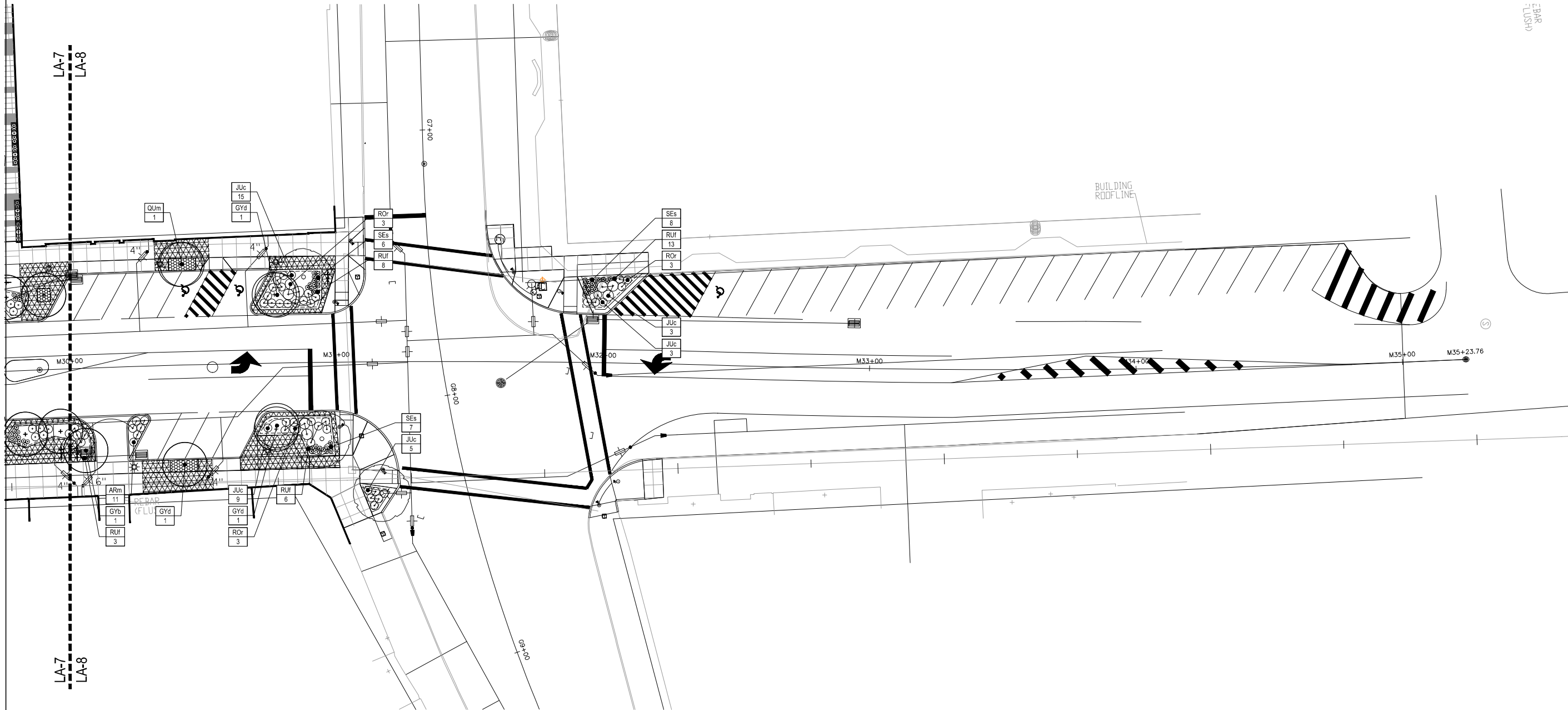


PROJECT	DOWNTOWN MAIN STREET REVITALIZATION PROJECT		
P.I.N.	6754.95		
CITY OF	CORTLAND		
COUNTY	CORTLAND COUNTY, NEW YORK		
TITLE OF DRAWING	PLANTING PLAN		
DRAWING NO.	LA-7		
SHEET	155 OF 169		
FA PROJECT NO.	190237		
PROJECT MANAGER	T. FAULKNER		
DESIGNED BY	J. GROSS, J. BRATH		
SCALE	AS SHOWN		
ISSUE DATE	MAR. 2022		
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REV	DESCRIPTION	DATE	BY
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CITY OF CORTLAND MAIN STREET REVITALIZATION

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LA-7  
LA-8

LA-7  
LA-8

PLANTING LEGEND		DETAIL
	EXISTING TREE TO REMAIN / AIR SPADE EXISTING ROOTS PRIOR TO PAVEMENT INSTALLATION PER SPEC AND DIRECTION OF LANDSCAPE ARCHITECT	
	TREE PLANTING (DECIDUOUS / SINGLE STEM)	
	TREE PLANTING (DECIDUOUS / MULTI-STEM)	
	SHRUB PLANTING	
	PERENNIAL PLANTING	
	TREE PIT NEW TREES: TOPSOIL & MULCH PER DETAIL; EXISTING TREES: FURNISH TOPSOIL AS NEEDED & 3" MULCH	
	STRUCTURAL SOIL	
	BIOSWALE	

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PROJECT DOWNTOWN MAIN STREET REVITALIZATION PROJECT P.I.N. 6754.95 CITY OF CORTLAND CORTLAND COUNTY, NEW YORK		TITLE OF DRAWING <b>PLANTING PLAN</b>	
DRAWING NO. <b>LA-8</b>		SHEET 156 OF 169	
FA PROJECT NO. 190237 PROJECT MANAGER T. FAULKNER DRAWN BY J. GROSS, J. BRATH SCALE AS SHOWN		ISSUE DATE MAR. 2022	
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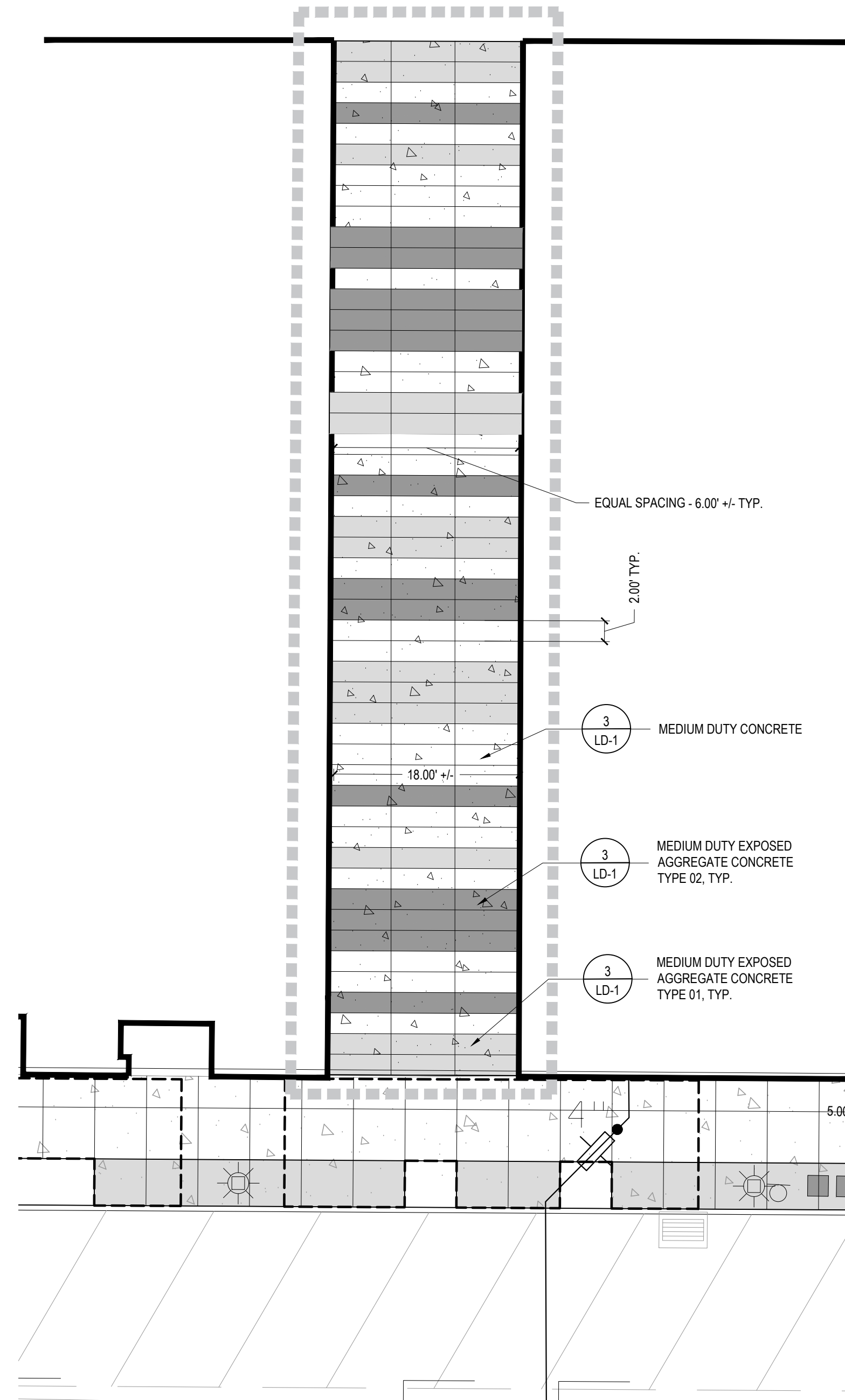
### GENERAL SHEET NOTES - MATERIAL/FURNISHINGS

1. ALL LAYOUT IS PARALLEL OR PERPENDICULAR TO BUILDING UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS ARE TO INSIDE FACE OF CURB UNLESS OTHERWISE NOTED.
3. ALL RADII SHALL BE 5' UNLESS OTHERWISE NOTED.
4. INSTALL EXPANSION JOINTS EVERY 30' MAX IN CONCRETE PAVEMENT AND IN AREAS WHERE CONCRETE ABUTS CURBS OR OTHER FIXED OBJECTS.
5. VERIFY DIMENSIONS AND ACCEPT CONDITIONS BEFORE PROCEEDING WITH WORK. REPORT ANY DISCREPANCIES TO LANDSCAPE ARCHITECT BEFORE PROCEEDING.
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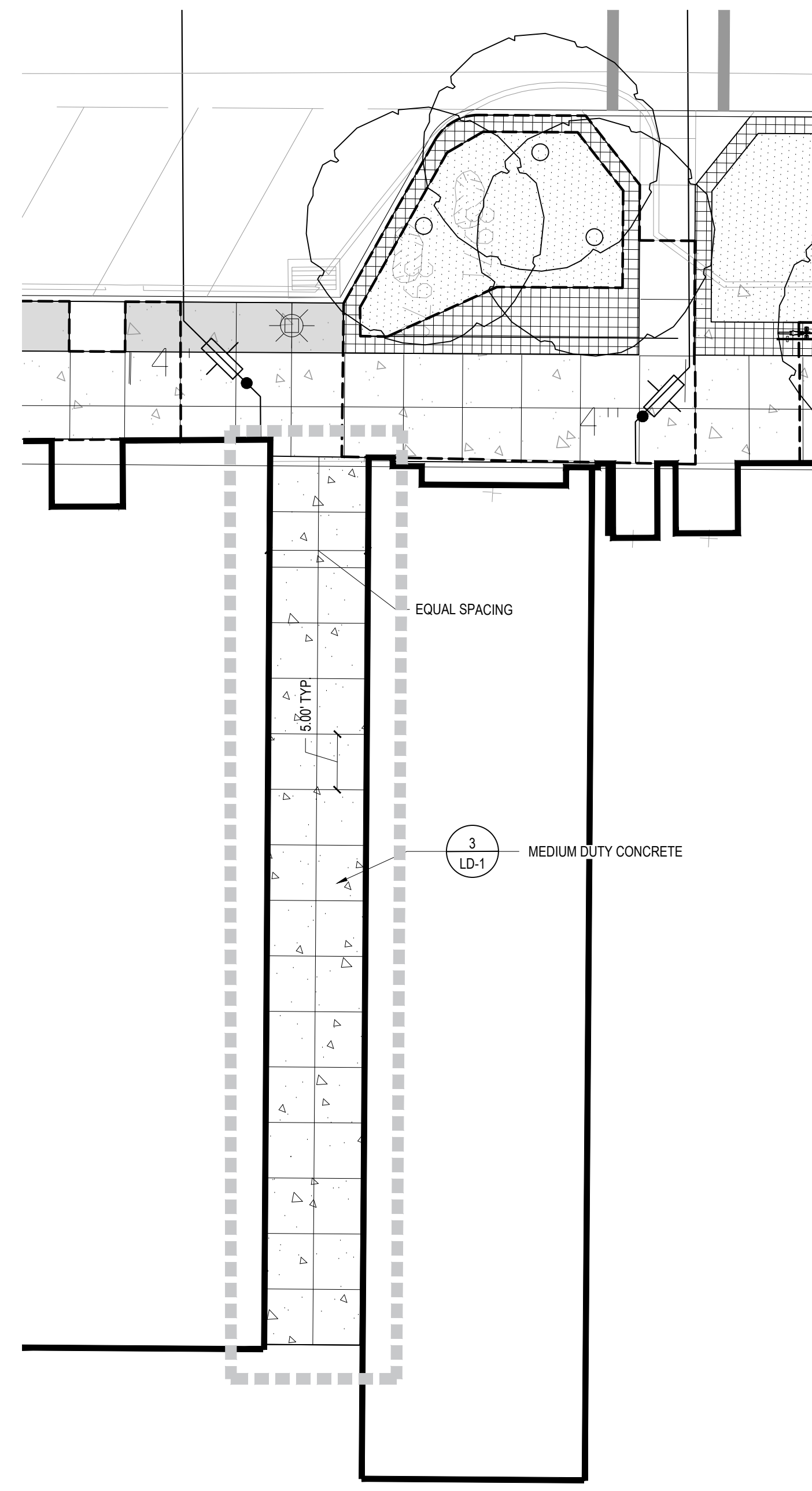
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KEY	MATERIAL / ITEM	DETAIL
	MEDIUM DUTY CONCRETE	3 LD-1
	MEDIUM DUTY EXPOSED AGGREGATE CONCRETE TYPE 01 (SEE SPECIFICATIONS)	3 LD-1
	MEDIUM DUTY EXPOSED AGGREGATE CONCRETE TYPE 02 (SEE SPECIFICATIONS)	3 LD-1
	GRANITE SETTS	1.2 LD-1
	PLANT BED	ALL L4.01
	TREE GRATE	6 LD-1
	BICYCLE RACKS	1.5 LD-3
	BENCH	7 LD-1
	POLE LIGHT TYP. (SEE ELECTRICAL DRAWINGS)	
	STRUCTURAL SOIL EXTENT	



**A ALLEY #1 - 16 MAIN STREET**  
1:10



**B ALLEY #2 - 89 MAIN STREET**  
1:10

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 DGN#SYTIME0123456 \$TIME\$  
 DGN#USERNAME

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 engineer, architect or landscape architect  
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 location indicated by the symbol on  
 the drawing, and a specific description  
 of the profession.

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 190237  
 PROJECT MANAGER  
 T. FAULKNER  
 DRAWN BY  
 J. GROSS, J. BRATH  
 SCALE  
 AS SHOWN  
 ISSUE DATE  
 MAR. 2022

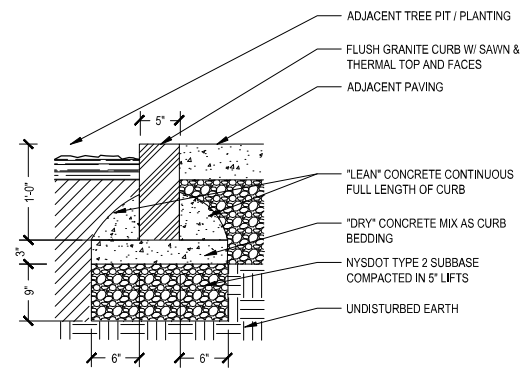
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PROJECT  
 DOWNTOWN MAIN STREET  
 REVITALIZATION PROJECT  
 P.I.N. 6754-95  
 CITY OF CORTLAND  
 CORTLAND COUNTY, NEW YORK  
 TITLE OF DRAWING  
 LANDSCAPE PLAN

REV	DESCRIPTION	DATE	BY
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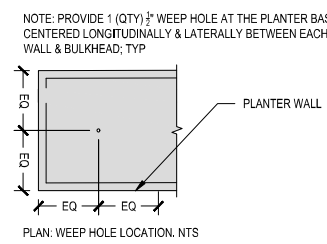
DRAWING NO.  
**LA-9**  
 SHEET 156F1 OF 171

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 DGN#SYTIME0123456 \$TIME\$  
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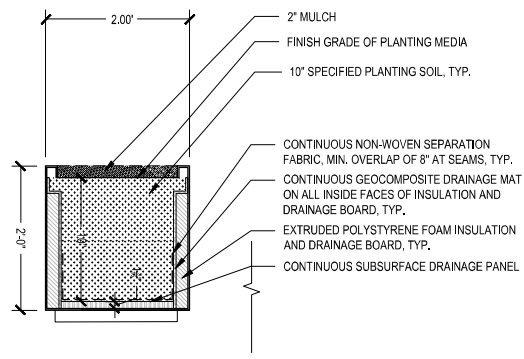


**11 FLUSH GRANITE CURB**  
 Scale: 1"=1'-0"

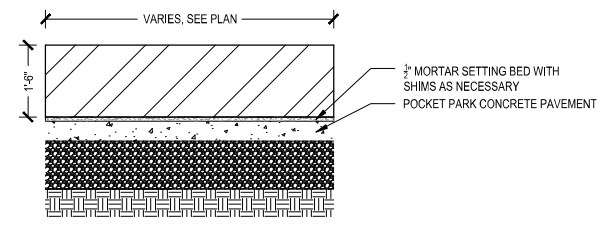
- NOTES:  
 1. PLANTER BASIS OF DESIGN: "WILSHIRE PLANTER" BY TOURNESOL.  
 2. SIZE: 71"L x 24"W x 24"H  
 3. COLOR: PUDDLE  
 4. FINISH: SEMI SMOOTH (T-1)  
 5. CUSTOM OPTIONS: Weep / drain holes.  
 6. QTY: 4



**10 EXTERIOR PLANTER**  
 Scale: 3/4" = 1'-0"

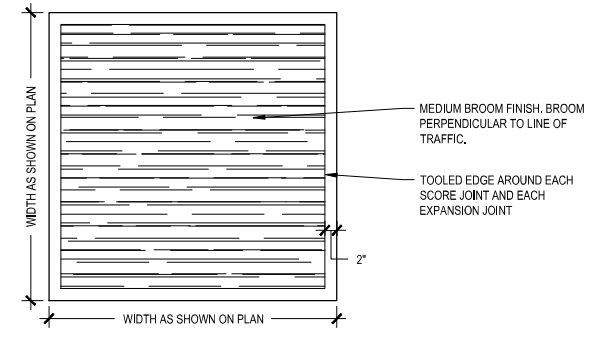


- NOTES:  
 1. GRANITE SEAT WALLS ARE TO BE CONSTRUCTED OF LENGTHS OF "JET MIST" GRANITE AS SHOWN ON PLAN EASE ALL EDGES TO 1/8" RADIUS TO ELIMINATE SHARP EDGES.  
 2. LEVEL STONE, TRUE AND PLUMB.  
 3. FINISHES ARE: SAW CUT AND THERMAL ALL FACES, AND TOP.  
 4. CONTRACTOR TO PREPARE SHOP DRAWINGS BASED ON FIELD MEASUREMENTS FOR APPROVAL PRIOR TO FABRICATION.



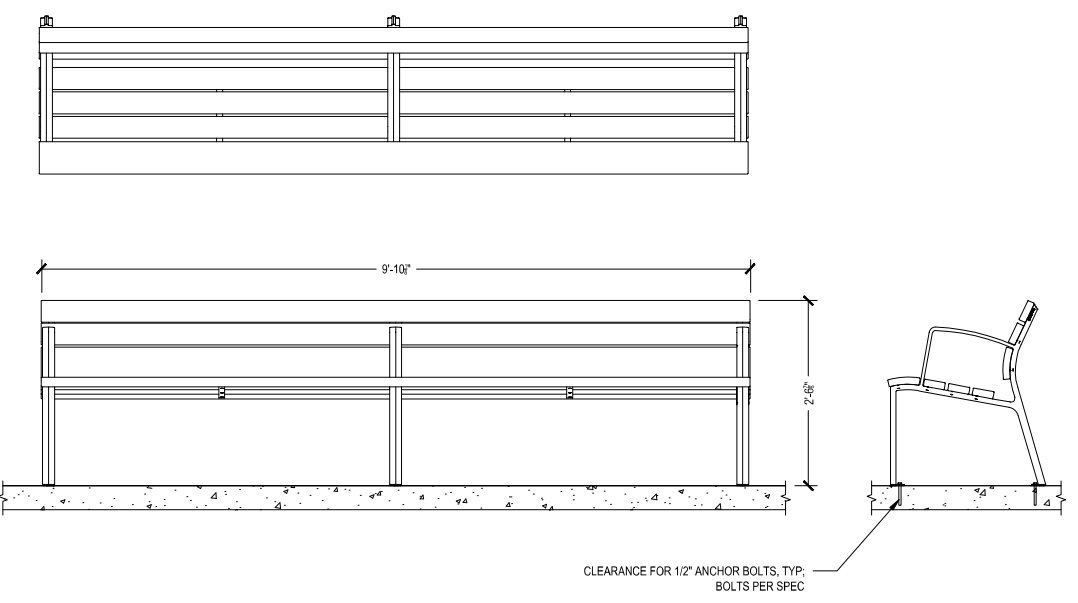
**9 GRANITE BLOCK SEAT WALL**  
 1/2"=1'-0"

- NOTES:  
 1. SEE PLANS FOR LOCATION AND TYPE OF SCORE JOINTS.  
 2. BROOM PERPENDICULAR TO LINE OF TRAFFIC.



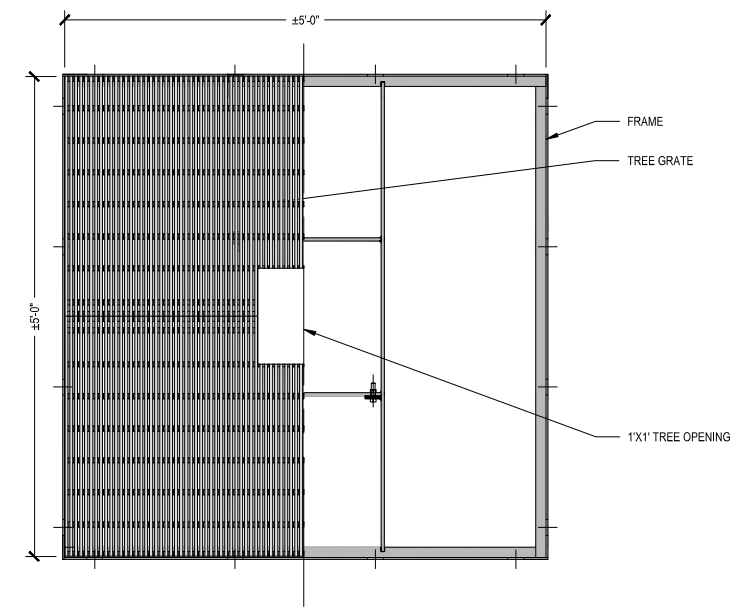
**8 CONCRETE BROOM FINISH**  
 Scale: 3/4"=1'-0"

- NOTES:  
 1. SEE PLANS FOR LOCATION.  
 2. BASIS-OF-DESIGN IS 'NEOLIVANO' BENCH BY LANDSCAPE FORMS

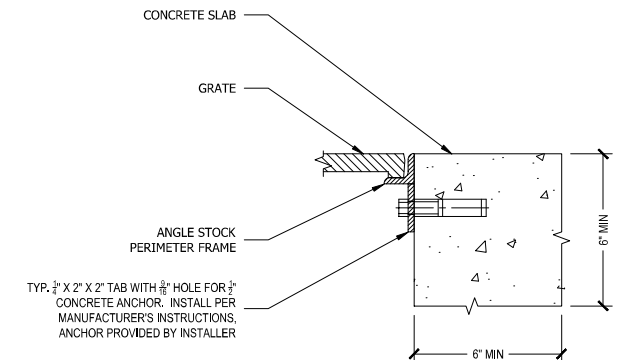


**7 BENCH**  
 Scale: 3/4" = 1'-0"

- NOTES:  
 1. SEE PLANS FOR LOCATION.  
 2. 'JAMISON' TREE GRATE BY URBAN ACCESSORIES, CAST IRON, RUST CONDITIONER FINISH.

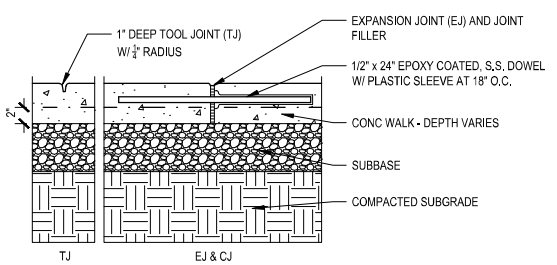


**6 TREE GRATE**  
 Scale: 1"=1'-0"

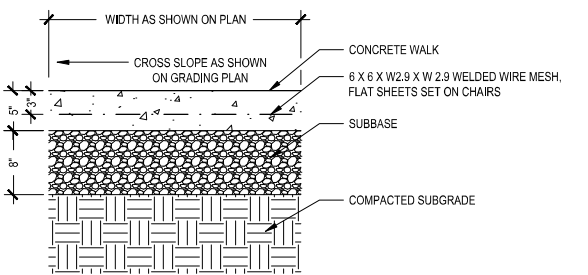


**5 TREE GRATE FRAME MOUNTING DETAIL**  
 Scale: 3"=1'-0"

- NOTES:  
 1. 2" MINIMUM CONCRETE COVERAGE ON MESH AND TIES

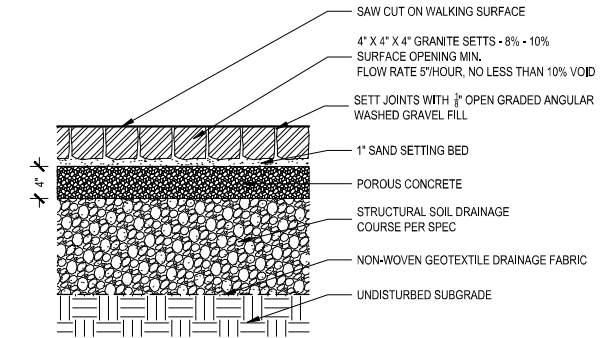


**4 CONCRETE JOINTS**  
 Scale: 1"=1'-0"



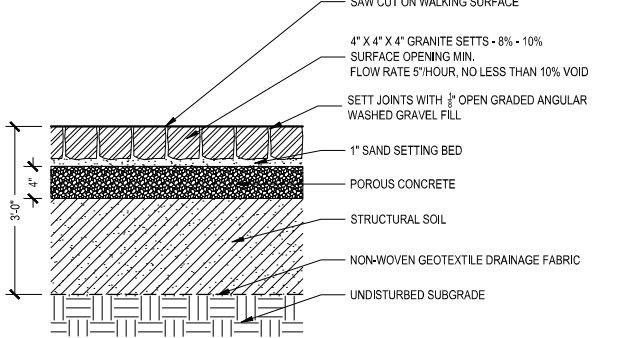
**3 MEDIUM DUTY CONCRETE SIDEWALK DETAIL**  
 Scale: 1"=1'-0"

- NOTES:  
 1. COST OF THE 4" POUROUS CONCRETE BASE SHALL BE INCLUDED IN THE BID UNIT PRICE OF THE GRANITE SETTS



**2 GRANITE SETTS ON POROUS CONCRETE UNDERLAYMENT**  
 Scale: 1"=1'-0"

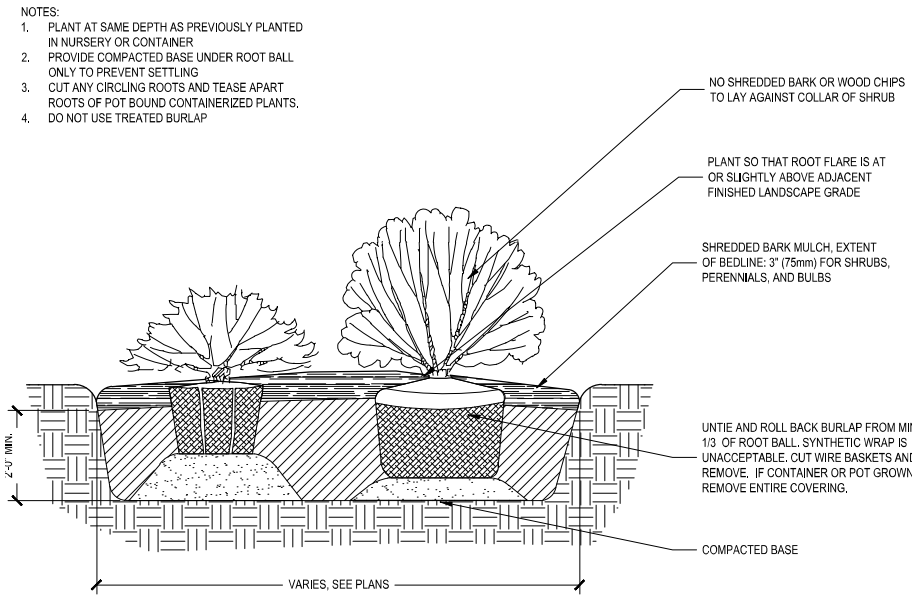
- NOTES:  
 1. COST OF THE 4" POUROUS CONCRETE BASE SHALL BE INCLUDED IN THE BID UNIT PRICE OF THE GRANITE SETTS



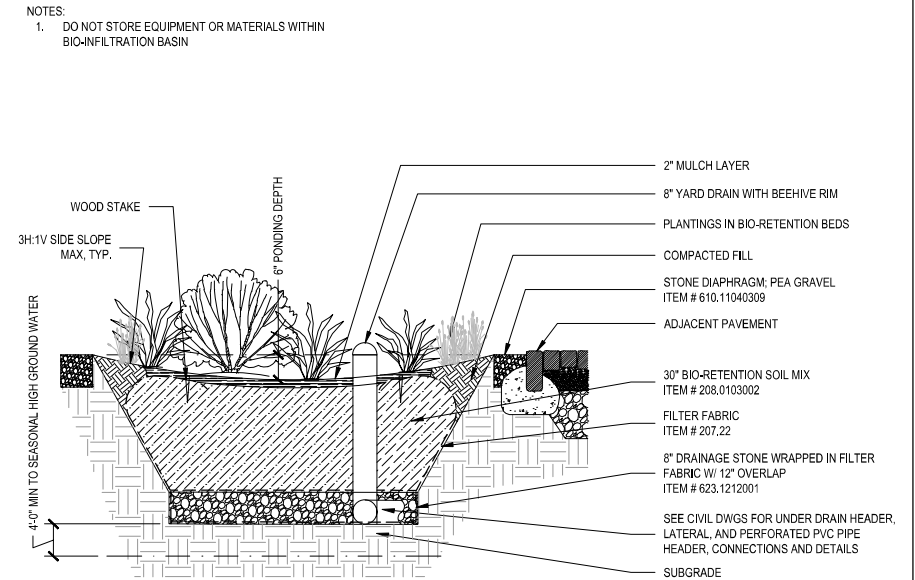
**1 GRANITE SETTS ON POROUS CONCRETE UNDERLAYMENT OVER STRUCTURAL SOIL**  
 Scale: 1"=1'-0"

PROJECT	DOWNTOWN MAIN STREET REVITALIZATION PROJECT		
P.I.N.	6754-95		
CITY OF	CORTLAND		
COUNTY	CORTLAND COUNTY, NEW YORK		
TITLE OF DRAWING	LANDSCAPE DETAILS: PAVING & PLANTING		
DRAWING NO.	LD-1		
SHEET	157 OF 169		
FA PROJECT NO.	190237		
PROJECT MANAGER	T. FAULKNER		
DESIGNED BY	J. GROSS, J. BRATH		
SCALE	AS SHOWN		
ISSUE DATE	MAR, 2022		
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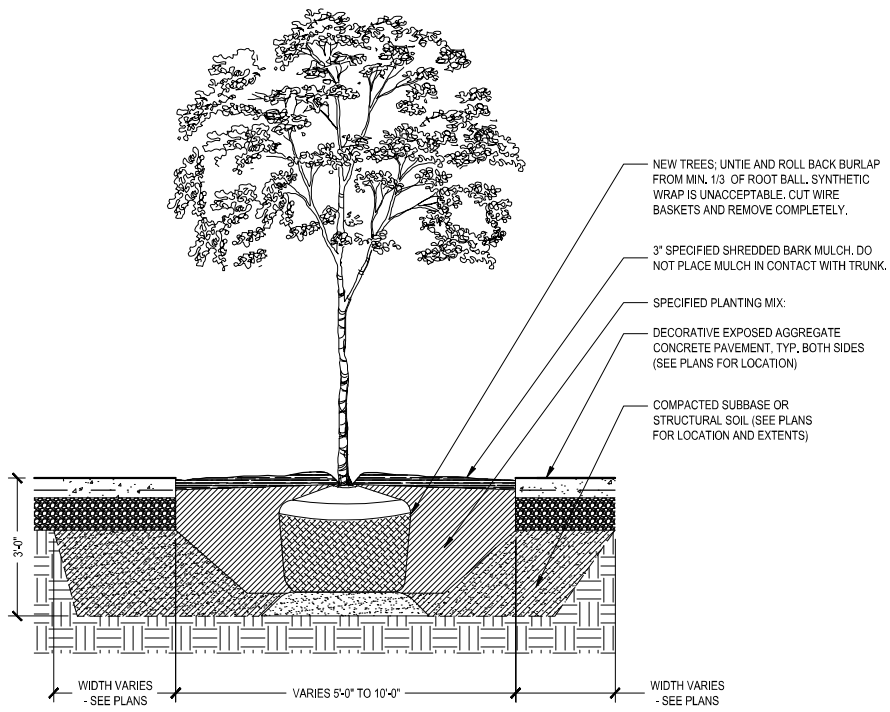
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 DGN#SYTIME0123456 \$TIME\$  
 DGN#USERNAME



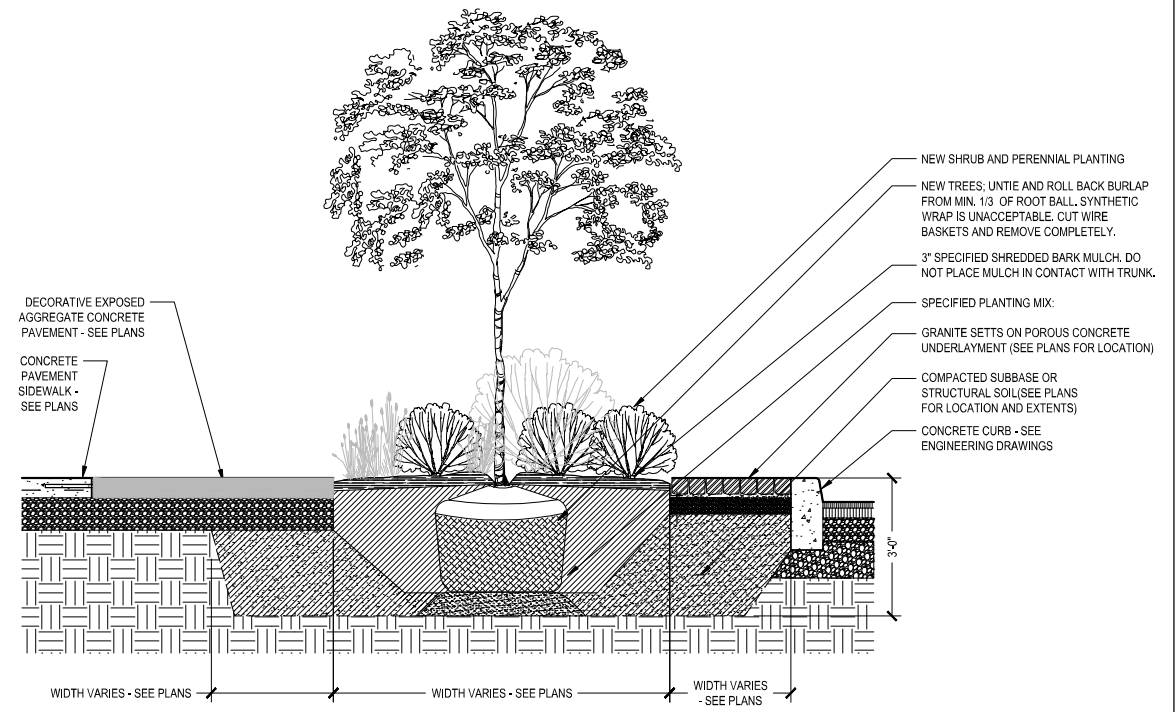
3 SHRUB BED PLANTING AT BUMP-OUTS  
 Scale: 1/2"=1'-0"



4 PLANT INSTALLATION IN BIORETENTION BED  
 Scale: 1/2"=1'-0"



1 TYPICAL STREETSCAPE TREE PIT  
 Scale: 1/2"=1'-0"



2 TYPICAL STREETSCAPE PLANT BED  
 Scale: 1/2"=1'-0"

NOTES:  
 1. DO NOT STORE EQUIPMENT OR MATERIALS WITHIN BIO-INFILTRATION BASIN

NOTES:  
 1. PLANT AT SAME DEPTH AS PREVIOUSLY PLANTED IN NURSERY OR CONTAINER  
 2. PROVIDE COMPACTED BASE UNDER ROOT BALL ONLY TO PREVENT SETTLING  
 3. CUT ANY CIRCLING ROOTS AND TEASE APART ROOTS OF POT BOUND CONTAINERIZED PLANTS.  
 4. DO NOT USE TREATED BURLAP

REV	DESCRIPTION	DATE	BY
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EA PROJECT NO. 190237  
 PROJECT MANAGER T. FAULKNER  
 DRAWN BY J. GROSS, J. BRATH  
 SCALE AS SHOWN  
 ISSUE DATE MAR. 2022



PROJECT: DOWNTOWN MAIN STREET REVITALIZATION PROJECT  
 P.I.N. 6754.95  
 CITY OF CORTLAND  
 CORTLAND COUNTY, NEW YORK  
 TITLE OF DRAWING: LANDSCAPE DETAILS: PAVING

DRAWING NO. LD-2  
 SHEET 158 OF 169

# GENERAL SHEET NOTES - MATERIAL/FURNISHINGS

- NOTES:  
 1. SEE PLANS FOR LOCATION.  
 2. ALL BIKE RACK FRAME COMPONENTS TO BE GALVANIZED STEEL, POWDER COAT FINISH TO BE SELECTED BY LANDSCAPE ARCHITECT FROM MANUFACTURER'S STANDARD COLOR RANGE.  
 3. CONTRACTOR TO PROVIDE DETAILED SHOP DRAWINGS FOR CLIENT / LANDSCAPE ARCHITECT APPROVAL FOR ALL "CUSTOM" BIKE RACKS. DIGITAL FILES TO BE PROVIDED.

REV	DESCRIPTION	DATE	BY
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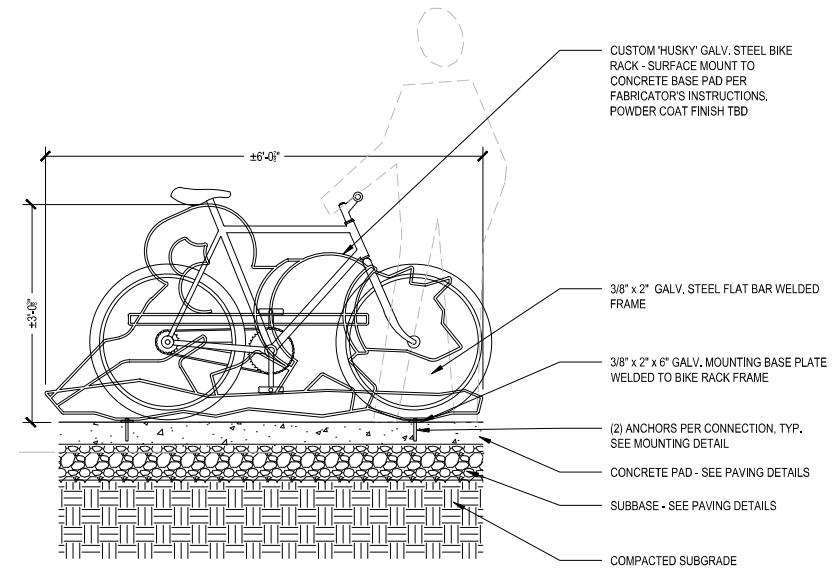
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FA PROJECT NO. 190237  
 PROJECT MANAGER T. FAULKNER  
 DRAWN BY J. GROSS, J. BRATH  
 SCALE AS SHOWN  
 ISSUE DATE MAR. 2022

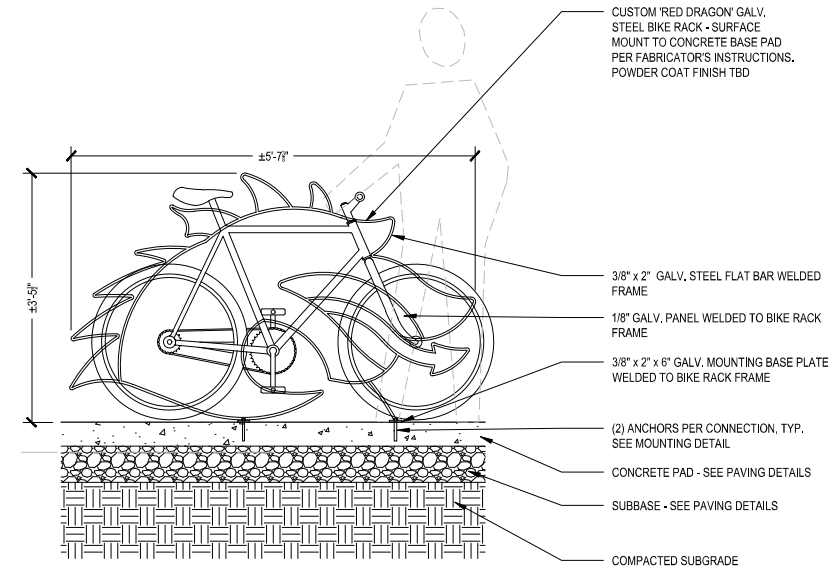


PROJECT: DOWNTOWN MAIN STREET REVITALIZATION PROJECT  
 P.I.N. 6754-95  
 CITY OF CORTLAND  
 CORTLAND COUNTY, NEW YORK  
 TITLE OF DRAWING: LANDSCAPE DETAILS: SITE FURNISHINGS

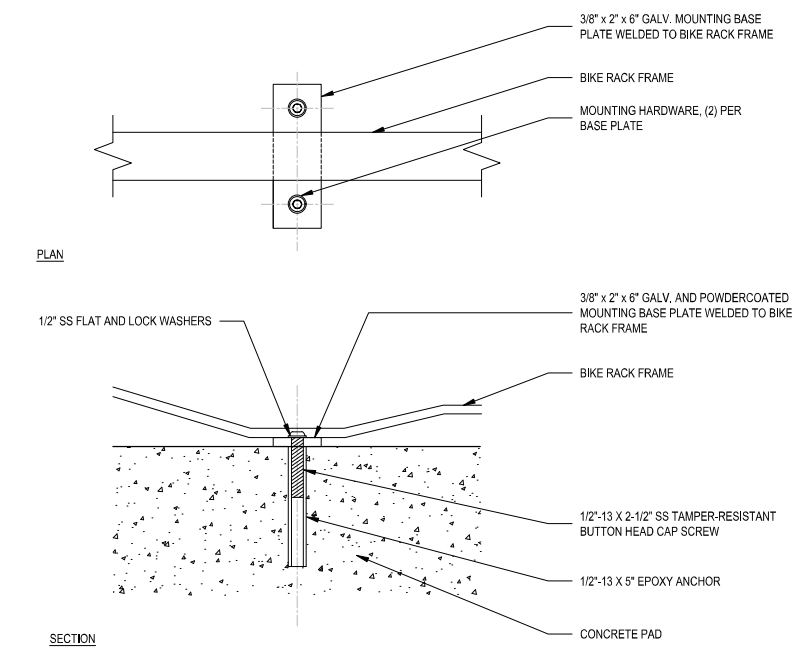
DRAWING NO. LD-3  
 SHEET 159 OF 169



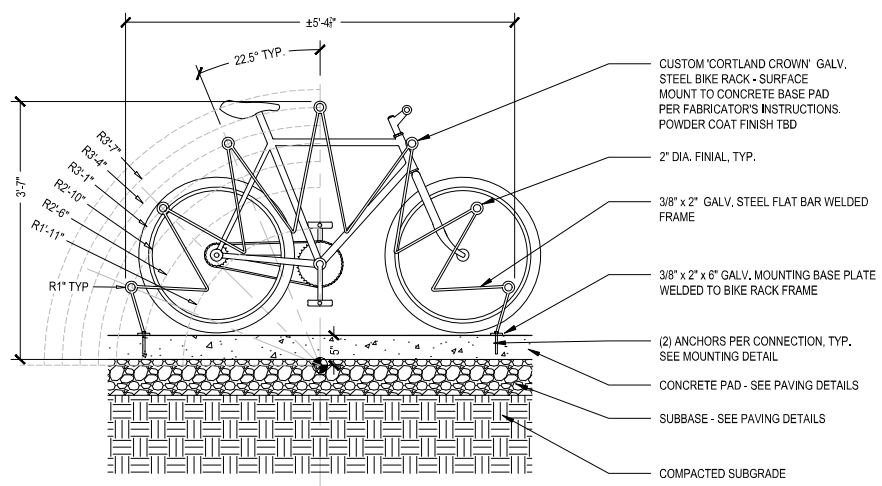
4 CUSTOM BIKE RACK 'D' - HUSKY  
 Scale: 3/4" = 1'-0"



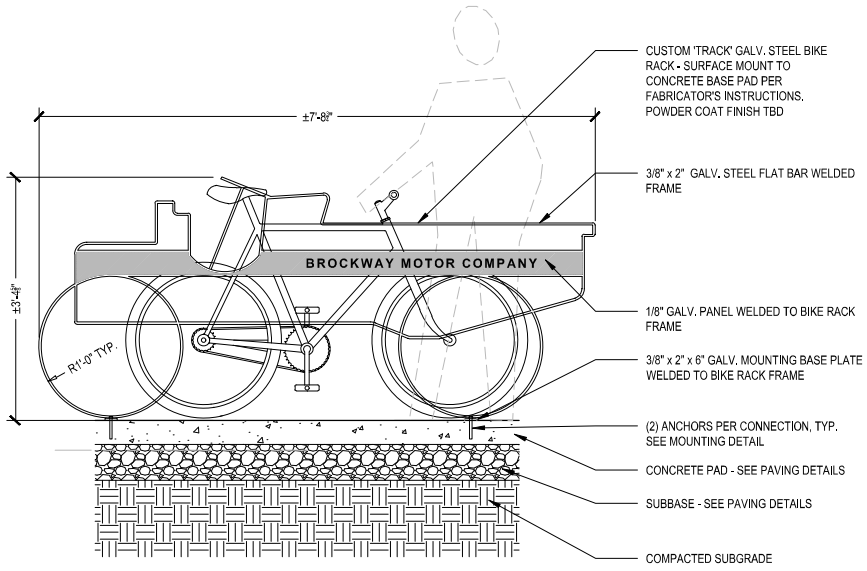
5 CUSTOM BIKE RACK 'E' - RED DRAGON  
 Scale: 3/4" = 1'-0"



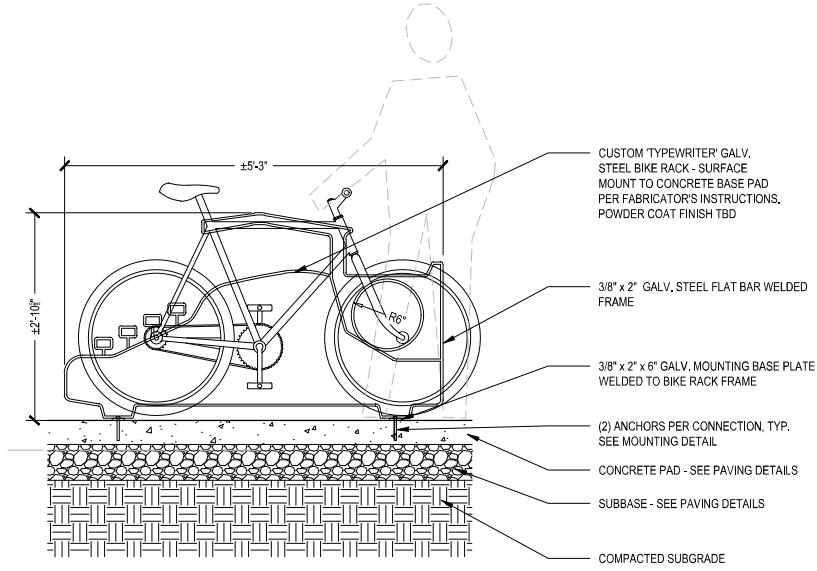
6 BIKE RACK MOUNTING DETAIL  
 Scale: 3" = 1'-0"



1 CUSTOM BIKE RACK 'A' - CROWN  
 Scale: 3/4" = 1'-0"



2 CUSTOM BIKE RACK 'B' - TRUCK  
 Scale: 3/4" = 1'-0"



3 CUSTOM BIKE RACK 'C' - TYPEWRITER  
 Scale: 3/4" = 1'-0"

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0' 10' 20' 40'  
 SCALE: 1" = 20'

EQNBK1+00.00  
 EQNAHDC 1+00.00

CLAYTON AVENUE

MAIN STREET

MAIN STREET

PORT WATSON STREET

1 ELECTRICAL SITE PLAN  
 SCALE: 1"=20'

FIELD CHANGE SHEET  
 THIS SHEET SUPERSEDES SHEET 161A1

GENERAL SHEET NOTES:

1. REFER TO LT-01 FOR ELECTRICAL LEGENDS, ABBREVIATIONS AND GENERAL PROJECT NOTES.
2. REFER TO LT-01 FOR RACEWAY SCHEDULE FOR APPROVED RACEWAY USAGE.
3. ALL CONDUCTORS SHALL BE XHHW TYPE.
4. INSTALLATION SHALL BE PER NECA1 GUIDELINES.
5. PROVIDE HANGARS & SUPPORTS AS REQUIRED.
6. PROVIDE GROUNDING PER NEC FOR ALL ELECTRICAL EQUIPMENT AND ASSOCIATED EQUIPMENT.
7. PROVIDE SUBMITTAL DATA FOR ALL PROPOSED HARDWARE, DEVICES, CONDUIT, HANGERS, ETC. FOR ENGINEER REVIEW & APPROVAL PRIOR TO ORDERING.
8. ALL CONDUCTORS AND EQUIPMENT NOT SHOWN FOR CLARITY. COORDINATE WITH ALL TRADES AND PROVIDE COMPLETE ELECTRICAL CIRCUITING FOR ALL INSTALLED EQUIPMENT. ALL REQUIREMENTS TO BE PER NEC.

SHEET KEY NOTES:

- ① LOCATION OF IN-FEED CIRCUIT SOURCE IS UNKNOWN. CONTRACTOR TO FIELD VERIFY AND SUBMIT FINDINGS TO ENGINEER FOR REVIEW PRIOR TO INSTALLATION OF CONDUIT/CONDUCTORS.
- ② LOCATE HANDHOLE ADJACENT TO NEW LIGHTING POLE. UTILIZE TO SPLICE INTO EXISTING CIRCUIT EXTENSIONS.
- ③ LOCATE HANDHOLE ADJACENT TO NEW LIGHTING POLE.

INTERCEPT FEED AT A STRATEGIC LOCATION AND EXTEND TO NEW FIXTURES. MAINTAIN CONNECTIVITY OF DOWNSTREAM FIXTURES. INTERCEPT AND EXTEND FEEDS AT EACH END.

INTERCEPT FEED AT A STRATEGIC LOCATION AND EXTEND TO NEW FIXTURES. MAINTAIN CONNECTIVITY OF DOWNSTREAM FIXTURES. INTERCEPT AND EXTEND FEEDS AT EACH END.

7	REV	ADDED 3 LIGHTS.	DATE	4/15/2024	BY	BCW
6						
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FA PROJECT NO.  
 200395

PROJECT MANAGER  
 T. FAULKNER

DRAWN BY  
 S. GARRABRANT

SCALE  
 AS SHOWN

ISSUE DATE  
 FEB 2022

JADE STONE ENGINEERING  
 Mechanical, Electrical, Plumbing

44 WASHINGTON WATERWAY 13601  
 P.O. BOX 6062  
 JADESTONE.COM

PROJECT:  
 DOWNTOWN MAIN STREET  
 REVITALIZATION PROJECT  
 P.I.N. 6754.95  
 CITY OF CORTLAND  
 CORTLAND COUNTY, NEW YORK

TITLE OF DRAWING  
 ELECTRICAL SITE PLAN

DRAWING NO.  
**LT-02**

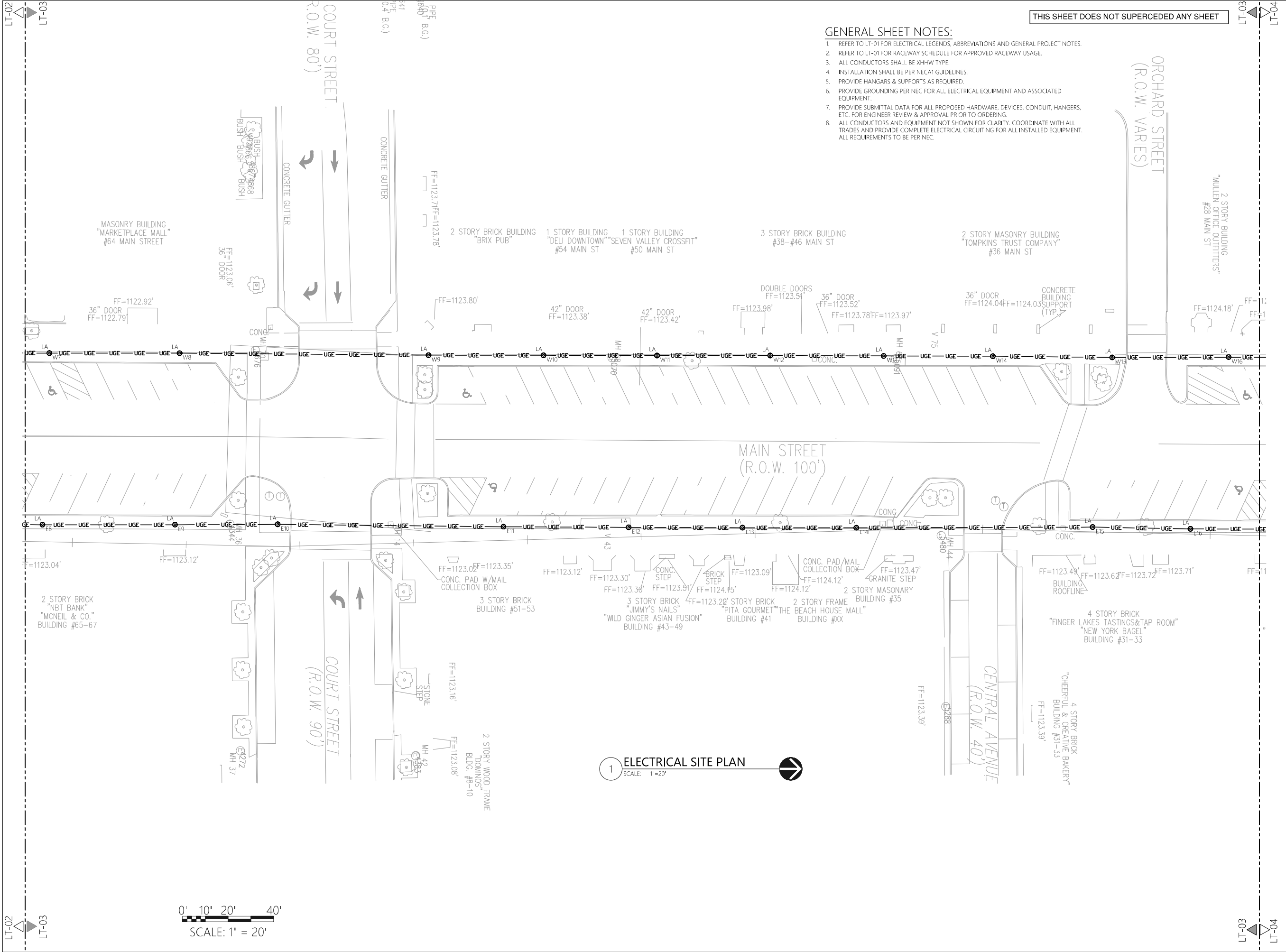
SHEET 161F1 OF 171

LT-02  
 LT-03  
 LT-02  
 LT-03

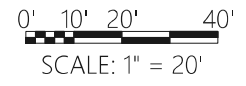
THIS SHEET DOES NOT SUPERCEDE ANY SHEET

**GENERAL SHEET NOTES:**

1. REFER TO LT-01 FOR ELECTRICAL LEGENDS, ABBREVIATIONS AND GENERAL PROJECT NOTES.
2. REFER TO LT-01 FOR RACEWAY SCHEDULE FOR APPROVED RACEWAY USAGE.
3. ALL CONDUCTORS SHALL BE XHH-W TYPE.
4. INSTALLATION SHALL BE PER NEC/1 GUIDELINES.
5. PROVIDE HANGARS & SUPPORTS AS REQUIRED.
6. PROVIDE GROUNDING PER NEC FOR ALL ELECTRICAL EQUIPMENT AND ASSOCIATED EQUIPMENT.
7. PROVIDE SUBMITTAL DATA FOR ALL PROPOSED HARDWARE, DEVICES, CONDUIT, HANGERS, ETC. FOR ENGINEER REVIEW & APPROVAL PRIOR TO ORDERING.
8. ALL CONDUCTORS AND EQUIPMENT NOT SHOWN FOR CLARITY. COORDINATE WITH ALL TRADES AND PROVIDE COMPLETE ELECTRICAL CIRCUITING FOR ALL INSTALLED EQUIPMENT. ALL REQUIREMENTS TO BE PER NEC.



**1 ELECTRICAL SITE PLAN**  
SCALE: 1" = 20'

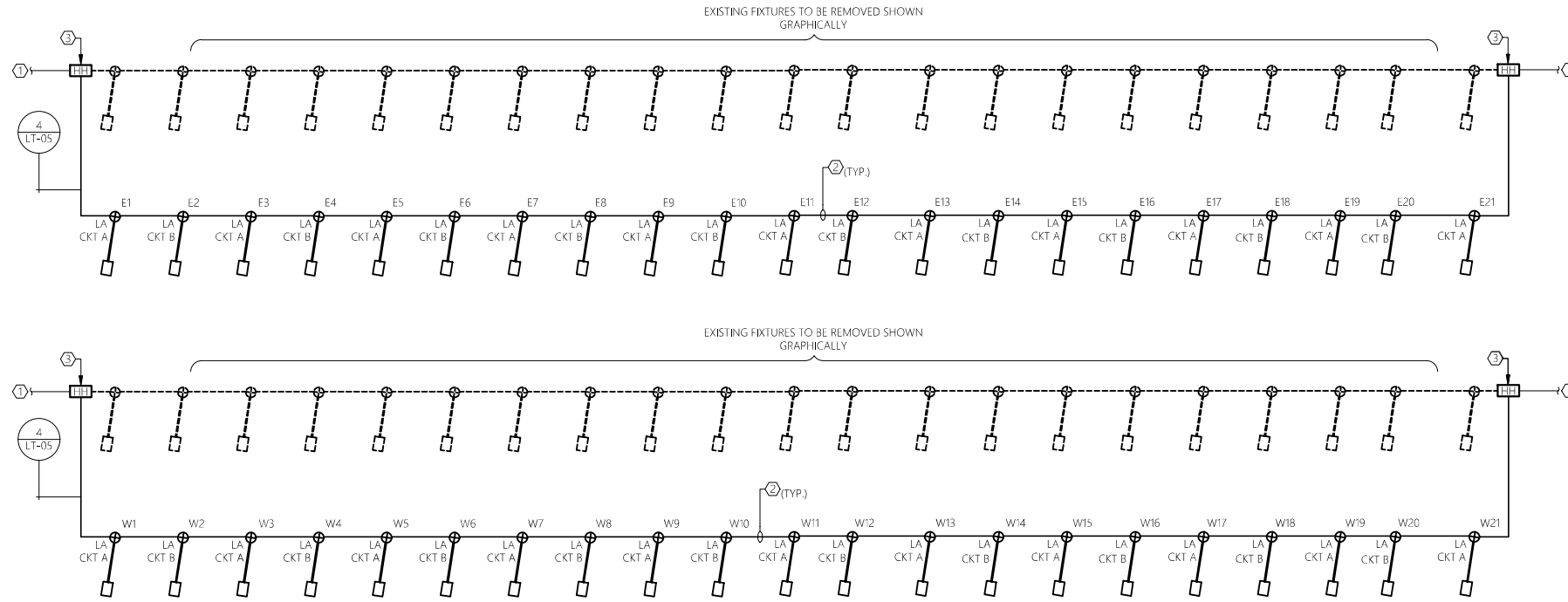


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FA PROJECT NO. 200395	PROJECT MANAGER T. FAULKNER
DRAWN BY S. GARRABRANT	ISSUE DATE FEB 2022
SCALE AS SHOWN	
PROJECT: DOWNTOWN MAIN STREET REVITALIZATION PROJECT P.I.N. 6754.95 CITY OF CORTLAND CORTLAND COUNTY, NEW YORK TITLE OF DRAWING: ELECTRICAL SITE PLAN	
DRAWING NO.	
<b>LT-03</b>	
SHEET 162A1 OF 169	

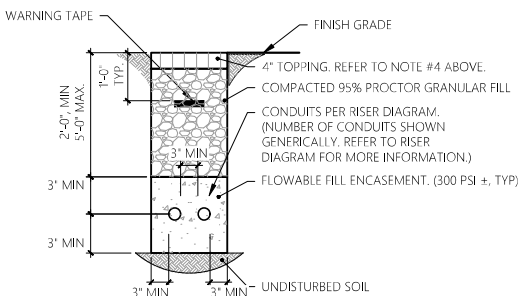






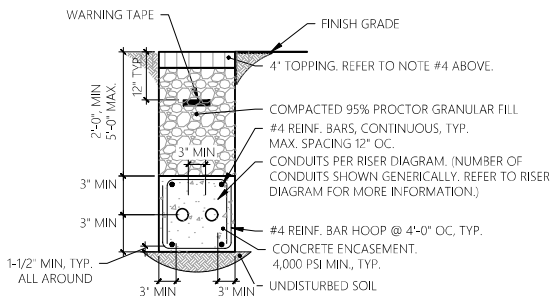
1 ELECTRICAL LIGHTING RISER DIAGRAM  
SCALE: NTS

- GENERAL NOTES:
- POWER AND CONTROL CONDUITS TO HAVE SEPARATION OF 12" MINIMUM.
  - DETAIL IS TYPICAL AND MAY REFLECT CONDUITS NOT REQUIRED FOR PROJECT.
  - FINISHED SURFACE TO MATCH SURFACE BEING DISTURBED.
    - IN AREA OF GRASS: USE 4" TOP SOIL & SEEDING.
    - IN ROADWAY OR NON-GRASS: USE COMPACTED 95% PROCTOR GRANULAR FILL.



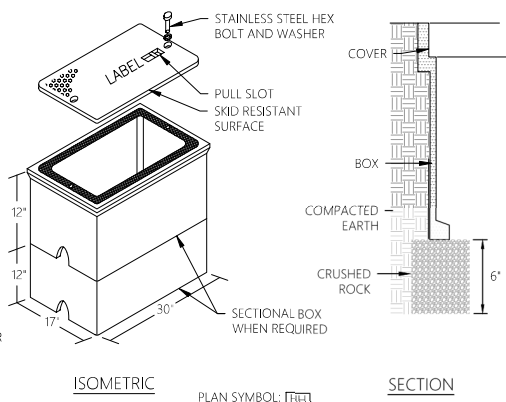
2 TYPICAL FLOWABLE FILL DUCT BANK SECTION  
SCALE: NTS (NON-TRAVELLED PATH)

- GENERAL NOTES:
- ALL WORK ASSOCIATED WITH TYPICAL REINFORCED CONCRETE DUCT BANK SHALL BE BY ELECTRICAL CONTRACTOR, INCLUDING BACKFILL, CONCRETE, REINFORCING, & CONDUIT.
  - POWER AND CONTROL CONDUITS TO HAVE SEPARATION OF 12" MINIMUM.
  - DETAIL IS TYPICAL AND MAY REFLECT CONDUITS NOT REQUIRED FOR PROJECT.
  - FINISHED SURFACE TO MATCH SURFACE BEING DISTURBED.
    - IN AREA OF GRASS: USE 4" TOP SOIL & SEEDING.
    - IN ROADWAY OR NON-GRASS: USE COMPACTED 95% PROCTOR GRANULAR FILL.

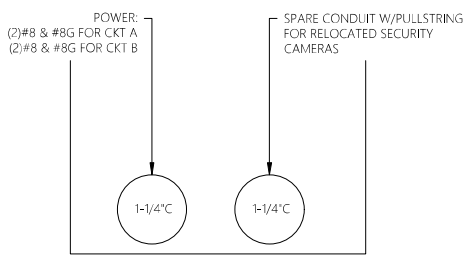


3 TYPICAL REINFORCED CONCRETE DUCT BANK SECTION  
SCALE: NTS (UNDER ROADWAYS)

- GENERAL NOTES:
- NYSDOT ITEM NUMBER 680.51700008. PROVIDE DIMENSIONS AND SHAPE SHOWN ON CONTRACT DRAWINGS IN LIEU OF THOSE DEFINED IN SPEC. CONSTRUCTION SHALL BE A POLYMER CONCRETE.
  - HANDHOLE TO HAVE 15,000LB DESIGN LOAD AND 22,500LB TEST LOAD.
  - ALL HARDWARE SHALL BE STAINLESS STEEL. PROVIDE SLEEVES FOR ALL PENETRATIONS AS NECESSARY.
  - BOTTOM SHALL BE OPEN FOR DRAINAGE.
  - PROVIDE LOGO ON COVER 'ELECTRIC'. COVER TO BE SECURED WITH PENTA BOLTS.
  - HANDHOLES MUST MEET ALL APPLICABLE REQUIREMENTS OF ANSI/SCTE 77.
  - HANDHOLES SHALL MEET MINIMUM SIZE REQUIREMENTS IN ACCORDANCE WITH NEC ARTICLE 314.30.
  - PROVIDE AS SPLIT HANDHOLE WHERE BOTH POWER AND COMMUNICATION ARE PRESENT. CONTRACTOR TO FIELD VERIFY.



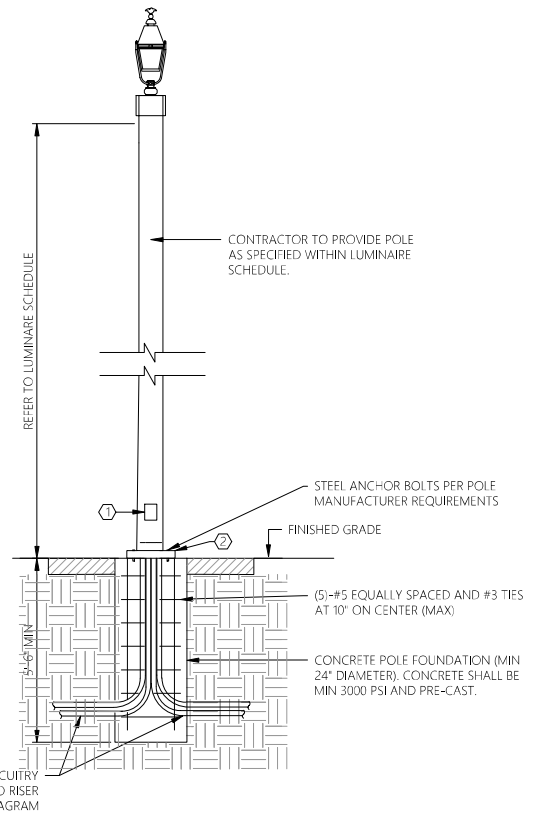
4 TYPICAL HANDHOLE DETAIL  
SCALE: NTS



4 TYPICAL DUCT BANK SECTION  
SCALE: NTS

- GENERAL SHEET NOTES:
- REFER TO LT-01 FOR ELECTRICAL LEGENDS, ABBREVIATIONS AND GENERAL PROJECT NOTES.
  - PROVIDE GROUNDING PER NEC FOR ALL ELECTRICAL EQUIPMENT AND ASSOCIATED EQUIPMENT.
  - ALL CONDUCTORS AND EQUIPMENT NOT SHOWN FOR CLARITY. COORDINATE WITH ALL TRADES AND PROVIDE COMPLETE ELECTRICAL CIRCUITING FOR ALL INSTALLED EQUIPMENT. ALL REQUIREMENTS TO BE PER NEC.
  - REFER TO ELECTRICAL SITE PLAN FOR GENERAL LOCATIONS.
  - REFER TO ELECTRICAL DETAIL SHEETS AND SCHEDULE SHEETS FOR ADDITIONAL INFORMATION/REQUIREMENTS.
  - CONTRACTOR TO PROVIDE ADDITIONAL LUG TERMINATION KITS AS NECESSARY TO TERMINATE THE NUMBER OF SETS OF CONDUCTORS SHOWN/SPECIFIED.
- SHEET KEY NOTES:
- INTERCEPT FEED AT A STRATEGIC LOCATION AND EXTEND TO NEW FIXTURES. MAINTAIN CONNECTIVITY OF DOWNSTREAM FIXTURES. INTERCEPT AND EXTEND FEEDS AT EACH END. (LOCATION OF IN-FEED CIRCUIT SOURCE IS UNKNOWN. CONTRACTOR TO FIELD VERIFY AND SUBMIT FINDINGS TO ENGINEER FOR REVIEW PRIOR TO INSTALLATION OF CONDUIT/CONDUCTORS.)
  - PROVIDE (2) 1-1/4" CONDUIT FOR LIGHT FIXTURE POWER:
    - (2) #8 & #8G FOR CKT A
    - (2) #8 & #8G FOR CKT B
 (1) SPARE CONDUIT W/PULLSTRING FOR RELOCATED SECURITY CAMERAS. PROVIDE FLOWABLE FILL DUCT BANK GENERALLY. PROVIDE REINFORCED CONCRETE DUCT BANK WHEN CROSSING ROADWAY. REFER TO BURIAL DETAILS, THIS SHEET, FOR ADDITIONAL INFORMATION. (TYPICAL ALL LIGHT FIXTURES) NYSDOT ITEM NUMBERS: 670.7005, 670.75060011, 670.2601, 206.03
  - LOCATE HANDHOLE ADJACENT TO NEW LIGHTING POLE. UTILIZE TO SPLICE INTO EXISTING CIRCUIT EXTENSIONS.

THIS SHEET DOES NOT SUPERCEDED ANY SHEET



- GENERAL NOTES:
- LIGHT POLE FOUNDATION TO BE PROVIDED UNDER NYSDOT ITEM NUMBER 670.0105.
  - DETAIL IS TYPICAL FOR ALL PROPOSED POLE MOUNTED LUMINAIRES.
  - ARE/SITE LUMINAIRE FIXTURES TO BE DARK SKY COMPLIANT AND UL LISTED FOR WET LOCATION.
  - MOUNT AREA LIGHTS TO ALUMINUM POLE AT HEIGHT INDICATED ON LUMINAIRE SCHEDULE.
  - REFER TO ELECTRICAL SITE PLAN FOR PROPOSED LOCATIONS.
  - CONTRACTOR TO ADJUST FINAL AIMING ANGLE OF FIXTURE TO LIGHT DESIRED AREA AND MINIMIZE LIGHT POLLUTION. COORDINATE WITH OWNER.
  - REFER TO LUMINAIRE SCHEDULE FOR SPECIFICATIONS REGARDING LIGHT POLE AND LIGHT FIXTURE.

- DETAIL KEY NOTES:
- HAND HOLE PROVIDED IN POLE. ALL SPLICES SHALL BE IN HAND HOLE. UTILIZE WATERTIGHT SPLICING METHODS. COORDINATE WITH POLE MANUFACTURER TO PROVIDE HAND HOLE (PULL POINT) WITHIN BASE OF POLE AS SHOWN.
  - CONTRACTOR TO COORDINATE BOLT HOLE PATTERN IN FIELD PRIOR TO RELEASING ORDER. PROVIDE BASE PLATE AS REQUIRED FOR ANCHORING POLE TO CONCRETE BASE. CONTRACTOR TO FIELD VERIFY AND PROVIDE AS REQUIRED.

6 TYPICAL STREET LIGHTING POLE INSTALLATION DETAIL  
SCALE: NTS

7	6	5	4	3	2	1	REV	DESCRIPTION	DATE	BY

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FA PROJECT NO. 200395  
PROJECT MANAGER T. FAULKNER  
DRAWN BY S. GARRABRANT  
SCALE AS SHOWN  
ISSUE DATE FEB 2022

STATE OF NEW YORK  
SEAN C. WALLDORF  
085954  
PROFESSIONAL ENGINEER

JADE STONE ENGINEERING  
mechanical, electrical, plumbing  
44 HANOVER ST. WINTERHAVEN 13090  
P: 315.526.8062  
jstoneeng.com

PROJECT: DOWNTOWN MAIN STREET REVITALIZATION PROJECT  
P.I.N. 6754.95  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK

TITLE OF DRAWING: ELECTRICAL RISER DIAGRAM & DETAILS

DRAWING NO. LT-05

SHEET 164A1 OF 169

DGN\$PEC01234567890123456789012345678901234  
DGN\$SYTIME0123456 \$TIME\$  
DGN\$USER\$NAME

THIS SHEET DOES NOT SUPERSEDE ANY SHEET

**GENERAL SHEET NOTES:**

- REFER TO LT-01 FOR ELECTRICAL LEGENDS, ABBREVIATIONS AND GENERAL PROJECT NOTES.
- REFER TO LT-01 FOR RACEWAY SCHEDULE FOR APPROVED RACEWAY USAGE.
- ALL CONDUCTORS SHALL BE XHHW TYPE.
- INSTALLATION SHALL BE PER NECA1 GUIDELINES.
- PROVIDE HANGARS & SUPPORTS AS REQUIRED.
- PROVIDE GROUNDING PER NEC FOR ALL ELECTRICAL EQUIPMENT AND ASSOCIATED EQUIPMENT.
- PROVIDE SUBMITTAL DATA FOR ALL PROPOSED HARDWARE, DEVICES, CONDUIT, HANGERS, ETC. FOR ENGINEER REVIEW & APPROVAL PRIOR TO ORDERING.
- ALL CONDUCTORS AND EQUIPMENT NOT SHOWN FOR CLARITY. COORDINATE WITH ALL TRADES AND PROVIDE COMPLETE ELECTRICAL CIRCUITING FOR ALL INSTALLED EQUIPMENT. ALL REQUIREMENTS TO BE PER NEC.

**SHEET KEY NOTES:**

- ALUZ Z020 FESTOON LIGHTING SYSTEM. 60" SPACING. REFER TO LT-07.
- ALUZ Z020 FESTOON LIGHTING SYSTEM. 36" SPACING. REFER TO LT-07.
- PROVIDE WATERTIGHT ENCLOSED NEMA 3R HINGED BOX WITH GFCI RECEPTACLE AND FORWARD PHASE DIMMER CONTROL SWITCH BOTH MOUNTED INSIDE. COORDINATE HEIGHT OF BOX IN FIELD WITH CITY.
- PROVIDE (2)#10 & #10G, 1" C TO NEAREST STREETLIGHT 120V CIRCUIT CONNECTION AND TIE IN.
- TURN UP BUILDING AT EXTERIOR WALL, UTILIZE RIGID GALVANIZED, 1" CONDUIT.
- REMOVE EXISTING COBRA HEAD DAVIT POLE LIGHT-COORDINATE WITH CITY.
- PROVIDE SUITABLE ANCHORS WITHIN BUILDING STRUCTURE TO SUPPORT GUY WIRE.
- PROVIDE RIGID CONDUIT BETWEEN CIRCUIT DROPS.

REV	DESCRIPTION	DATE	BY
7			
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1			

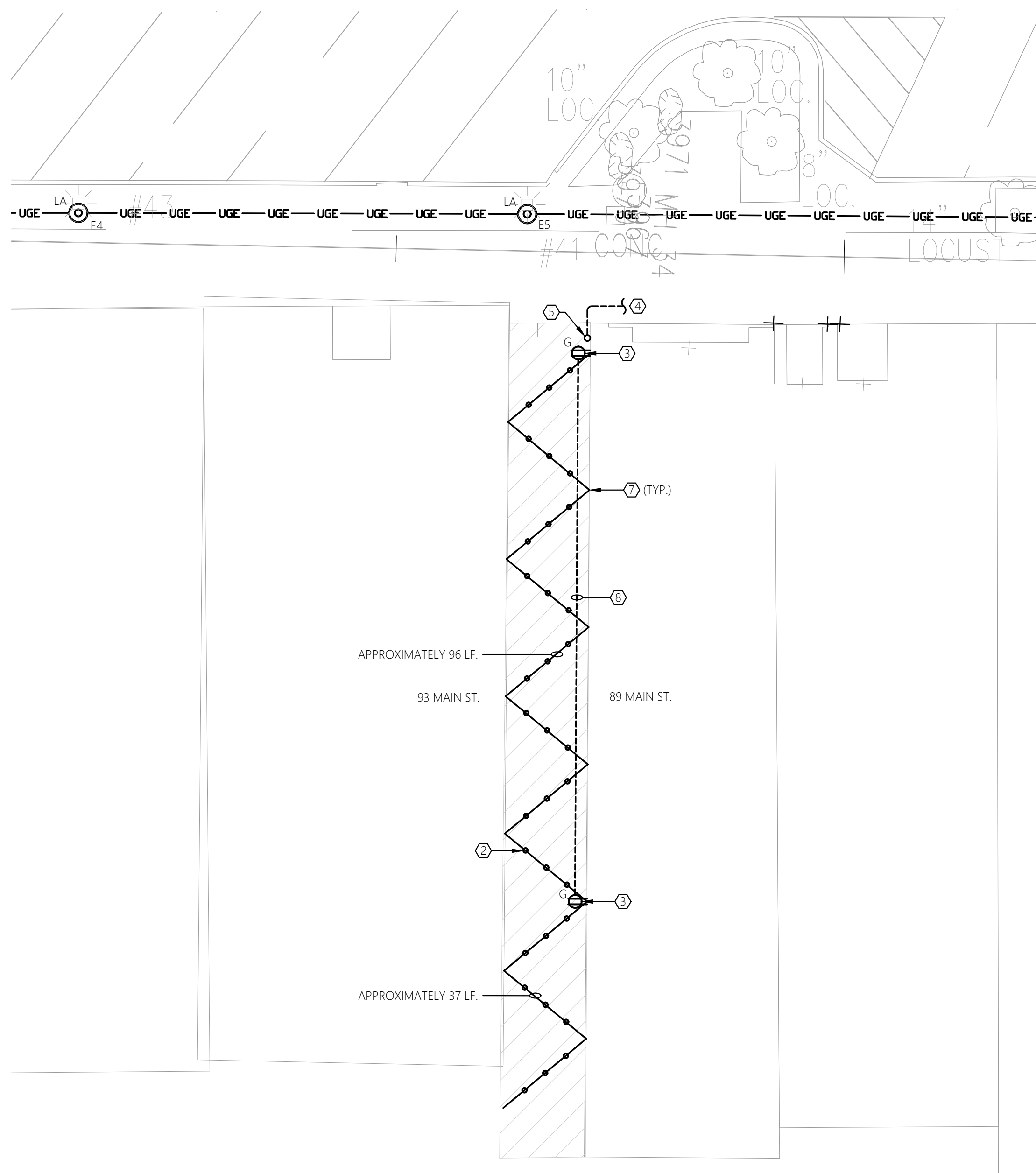
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T. FAULKNER  
DRAWN BY  
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SCALE  
AS SHOWN  
ISSUE DATE  
FEB 2022

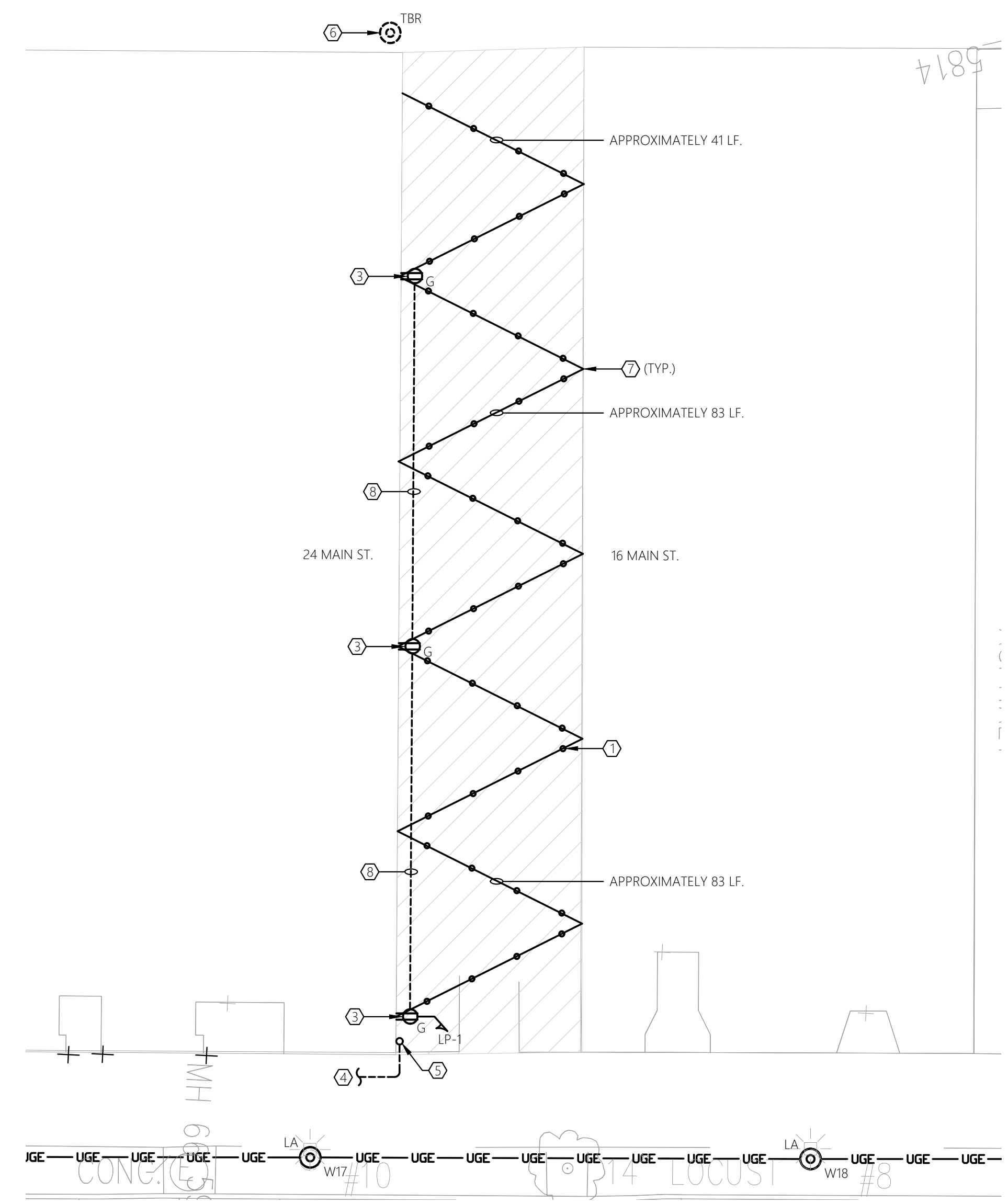
JADE STONE ENGINEERING  
Mechanical, Electrical, Plumbing  
44 WASHINGTON WATERWAY 1300  
P. 315.526.8062  
jstoneeng.com

PROJECT  
DOWNTOWN MAIN STREET  
REVITALIZATION PROJECT  
P.I.N. 6754.95  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK  
TITLE OF DRAWING  
ELECTRICAL PARTIAL SITE PLANS

DRAWING NO.  
**LT-06**  
SHEET 164F2 OF 174



**1 ELECTRICAL PARTIAL SITE PLAN**  
SCALE: 1"=10"  
(89 MAIN STREET)



**2 ELECTRICAL PARTIAL SITE PLAN**  
SCALE: 1"=10"  
(16 MAIN STREET)



**4 PHOTO OF ALLEY #1**  
SCALE: NOT TO SCALE (16 MAIN STREET)



**5 PHOTO OF ALLEY #2**  
SCALE: NOT TO SCALE (89 MAIN STREET)

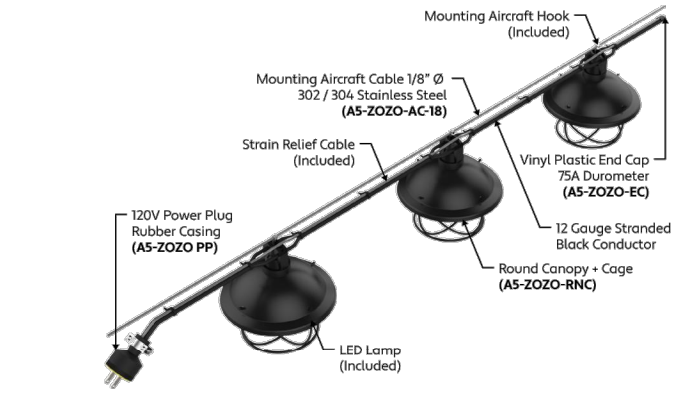
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DGN\$SYTIME0123456 \$TIME\$  
DGN\$USERNAME

0' 5' 10' 20'  
SCALE: 1" = 10'



A5 Series | String / Festoon Zozo Round Cage (A5-ZOZO-RNC)

TYPE [ ]



END VIEWS / DIMENSIONS



60" FOR 16 MAIN STREET & 36" FOR 89 MAIN STREET

SPECIFY PRODUCT CODE | CHOOSE FROM DROP DOWNS

Table with columns: Series, Spacing, Lamp, Dimming, Listing, Canopy Finish Inside, Canopy Finish Outside, Luminaire Length. Includes options for 12" on Center (12"), 18" on Center (18"), 24" on Center (24"), 36" on Center (36"), and 48" on Center (48").

Note: G-Shape Lamps with 24K, 30K, or 3500K LEDs must be used to meet IDA Certification for Dark Sky Compliance.

1170 N Red Gum St, Anaheim, CA 92806 aluz.lighting info@aluz.lighting 866.ALUZ.LTG | 714.535.7900

Specification Submittal Page 1 of 4 6 / 13 / 2023 / Rev 14



A5 Series | String / Festoon Zozo Round Cage (A5-ZOZO-RNC)

TYPE [ ]

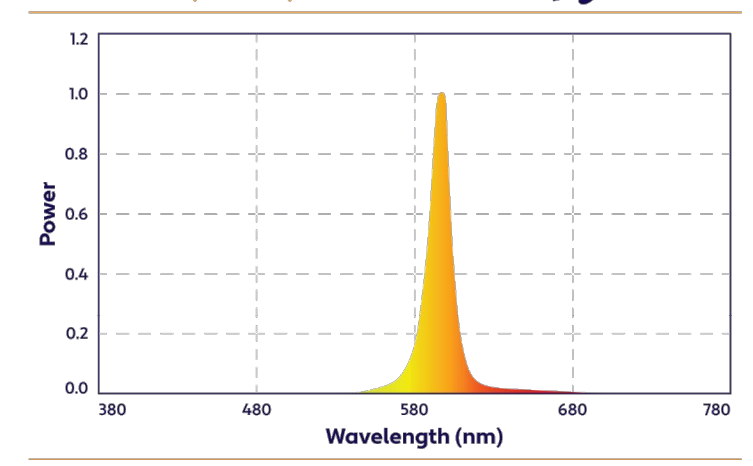
LAMP OPTIONS

Table showing Lamp Image & Dimensions, Lamp Name & Product Code, Lamp Type, Material, Lamp Life, Lumens, Beam Angle, Appearance, CCT & Colors, and Lamp Watts for various lamp options like G-Shape Lamp (GSF), G-Shape Filament Lamp (GSFL), S-Shape Lamp (SSF), and S-Shape Clear Lamp (SSC).

LAMP SPECIFICATIONS

Table with columns: Lamp Number, Correlated Color Temperature, Description, and Available Lamp Shapes. Lists options for 24K, 30K, 35K, 40K, 50K, R, G, B, A, and OR.

SPECTRAL POWER DISTRIBUTION AMBER LED (590nm) TURTLE FRIENDLY



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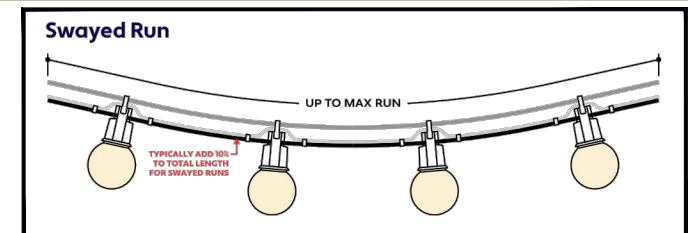
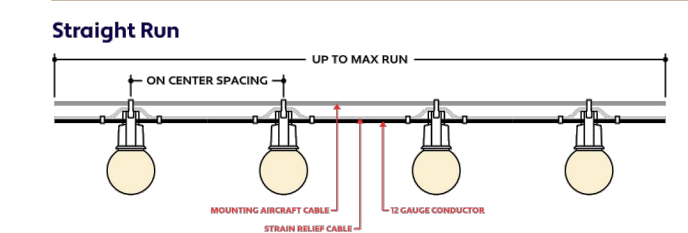
Specification Submittal Page 2 of 4 6 / 13 / 2023 / Rev 14



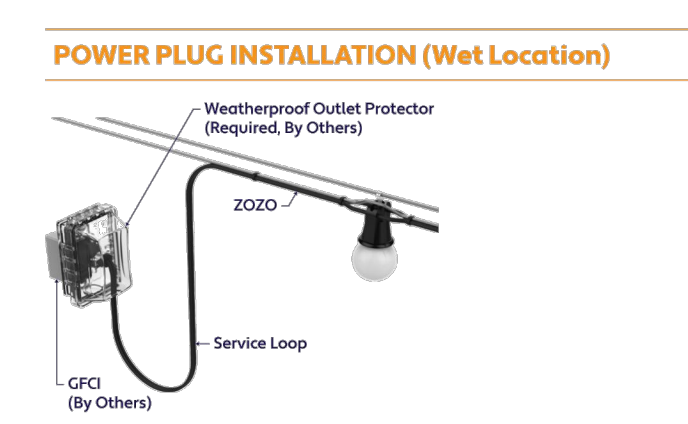
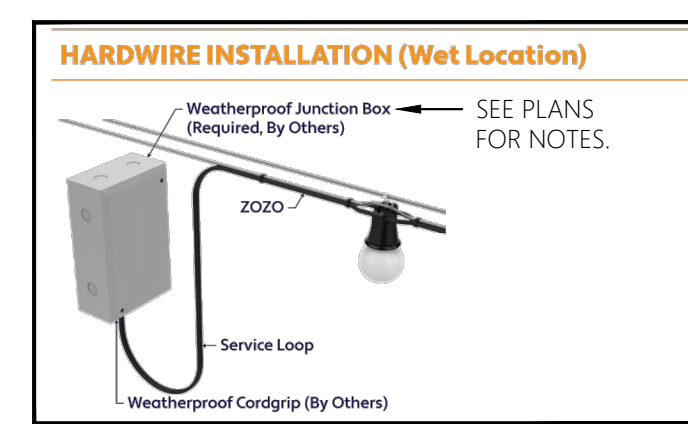
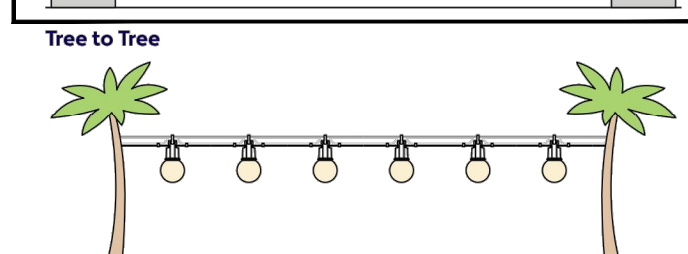
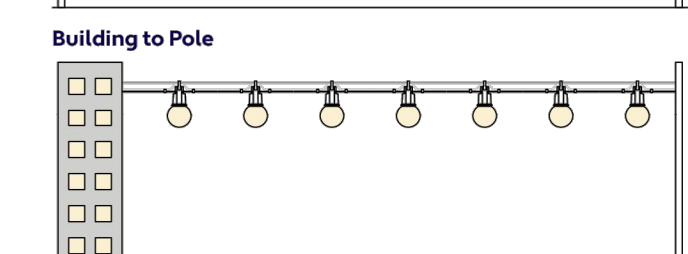
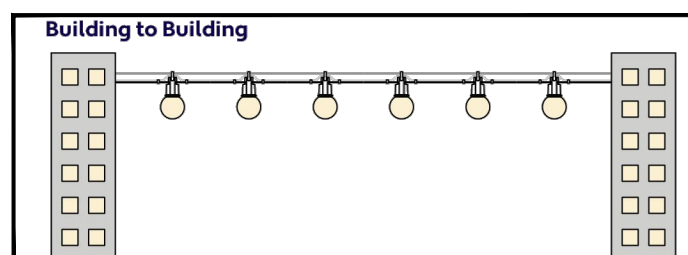
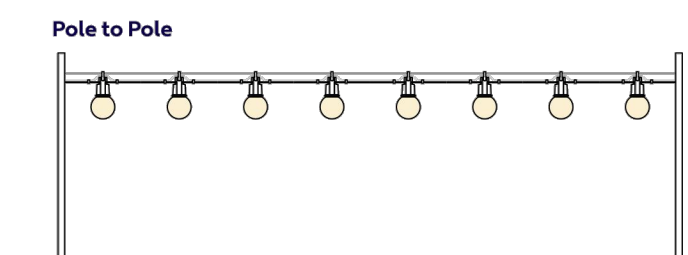
A5 Series | String / Festoon Zozo Round Cage (A5-ZOZO-RNC)

TYPE [ ]

DESIGN GUIDELINES



INSTALLATION OPTIONS



INSTALLATION RECOMMENDATIONS

- Determine weight of string light that will be used.
Determine length of string light and multiply by weight.
An engineer must choose the proper aircraft cable to handle the tension, based on length and weight to prevent product from sagging.
An engineer must determine the strength of the structure where the cable will attach, based on tension calculation from previous step.
If installing on a pole, check with pole manufacturer to confirm the pole can handle the tension.
String light is hung to the above aircraft cable using the hooks. Secure hooks to aircraft cable by crimping or using stainless steel tie wraps.
The supplied aircraft cable is designed to prevent strain on the wire. An additional aircraft cable is required to hang string light.

WEIGHT PER FOOT

Table with columns: Series, Spacing Selection, and Approximate Weight. Lists weights for 12" on Center (12"), 18" on Center (18"), 24" on Center (24"), 36" on Center (36"), 48" on Center (48"), and 60" on Center (60").

1170 N Red Gum St, Anaheim, CA 92806 aluz.lighting info@aluz.lighting 866.ALUZ.LTG | 714.535.7900

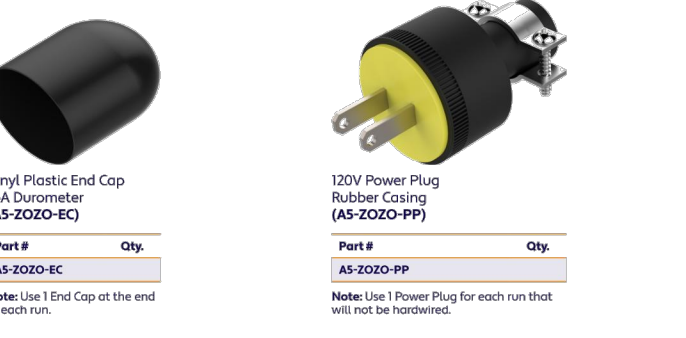
Specification Submittal Page 4 of 4 6 / 13 / 2023 / Rev 14



A5 Series | String / Festoon Zozo Round Cage (A5-ZOZO-RNC)

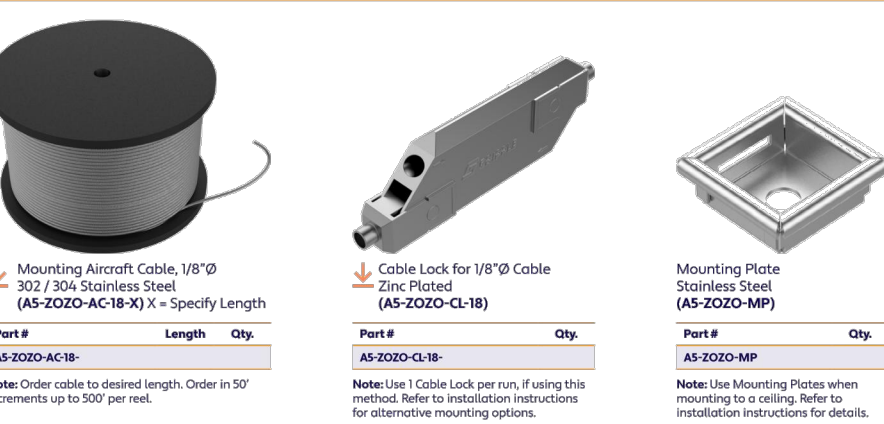
TYPE [ ]

ACCESSORIES (Sold Separately)



CONTRACTOR TO PROVIDE ACCESSORIES TO SUIT SPECIFIC SITE INSTALLATION.

MOUNTING ACCESSORIES (Sold Separately - Click Image to See Cut Sheet, if Applicable)



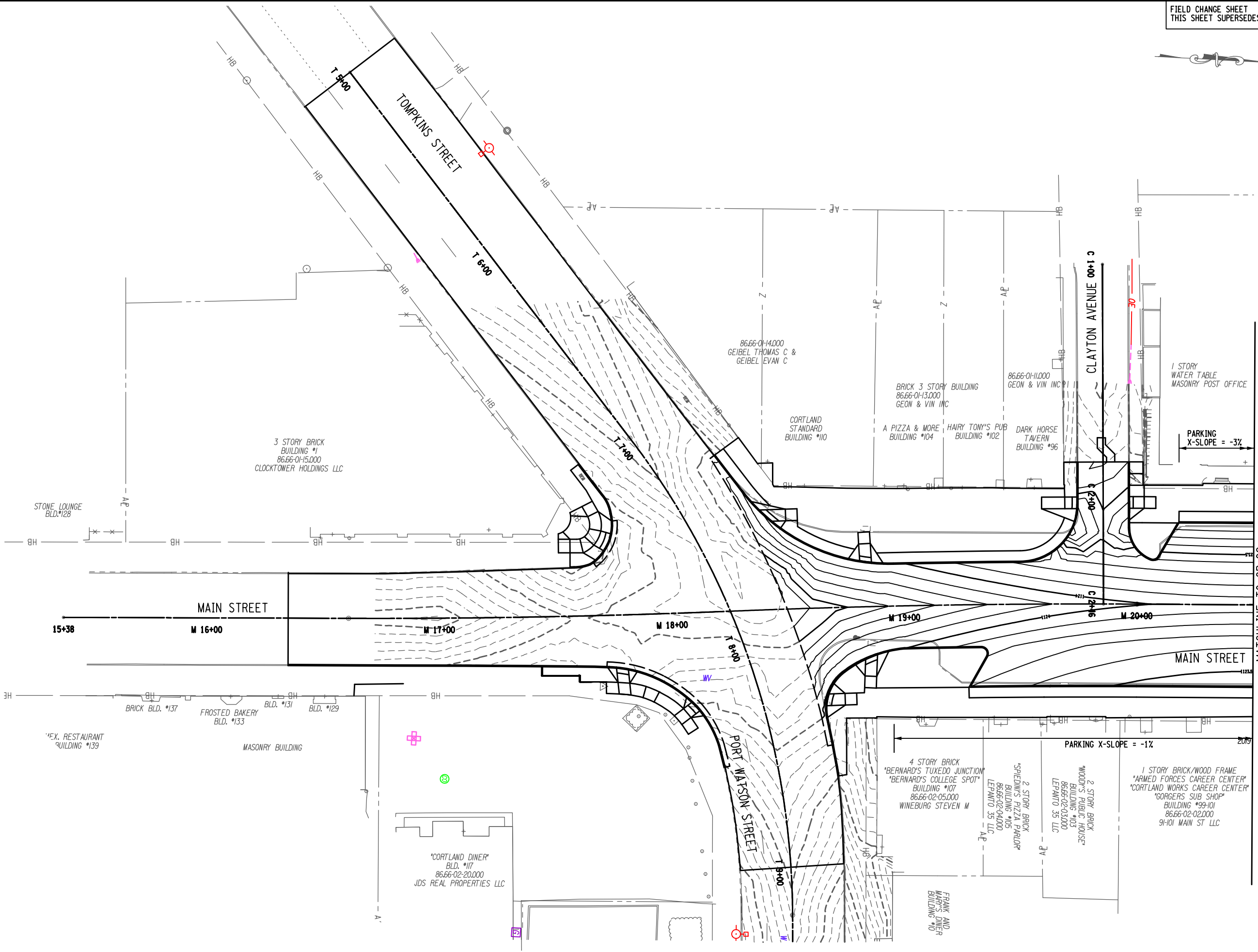
1170 N Red Gum St, Anaheim, CA 92806 aluz.lighting info@aluz.lighting 866.ALUZ.LTG | 714.535.7900

Specification Submittal Page 3 of 4 6 / 13 / 2023 / Rev 14

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Project information block including: PROJECT: DOWNTOWN MAIN STREET REVITALIZATION PROJECT, P.I.N. 6754.95, CITY OF CORTLAND, CORTLAND COUNTY, NEW YORK; TITLE OF DRAWING: ELECTRICAL DETAILS; DRAWING NO.: LT-07; SHEET 164F3 OF 171; and project manager T. FAULKNER.

FIELD CHANGE SHEET  
THIS SHEET SUPERSEDES SHEET 165F1



MATCHLINE TO GP-02

REV	DESCRIPTION	DATE	BY
1	REVISED LABELS	9/28/22	JNT
2	CURB LINE CHANGES	3/17/23	JNT
3			
4			
5			
6			
7			

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be the one to prepare, or under the direct  
supervision of, the design. The design  
professional is responsible for the design  
and the construction of the project.  
The design professional is not responsible  
for the construction of the project.  
The design professional is not responsible  
for the construction of the project.

EA PROJECT NO.  
200395  
PROJECT MANAGER  
T. FAULKNER  
DRAWN BY  
J. TANSKI  
SCALE  
AS SHOWN  
ISSUE DATE  
FEB. 2022



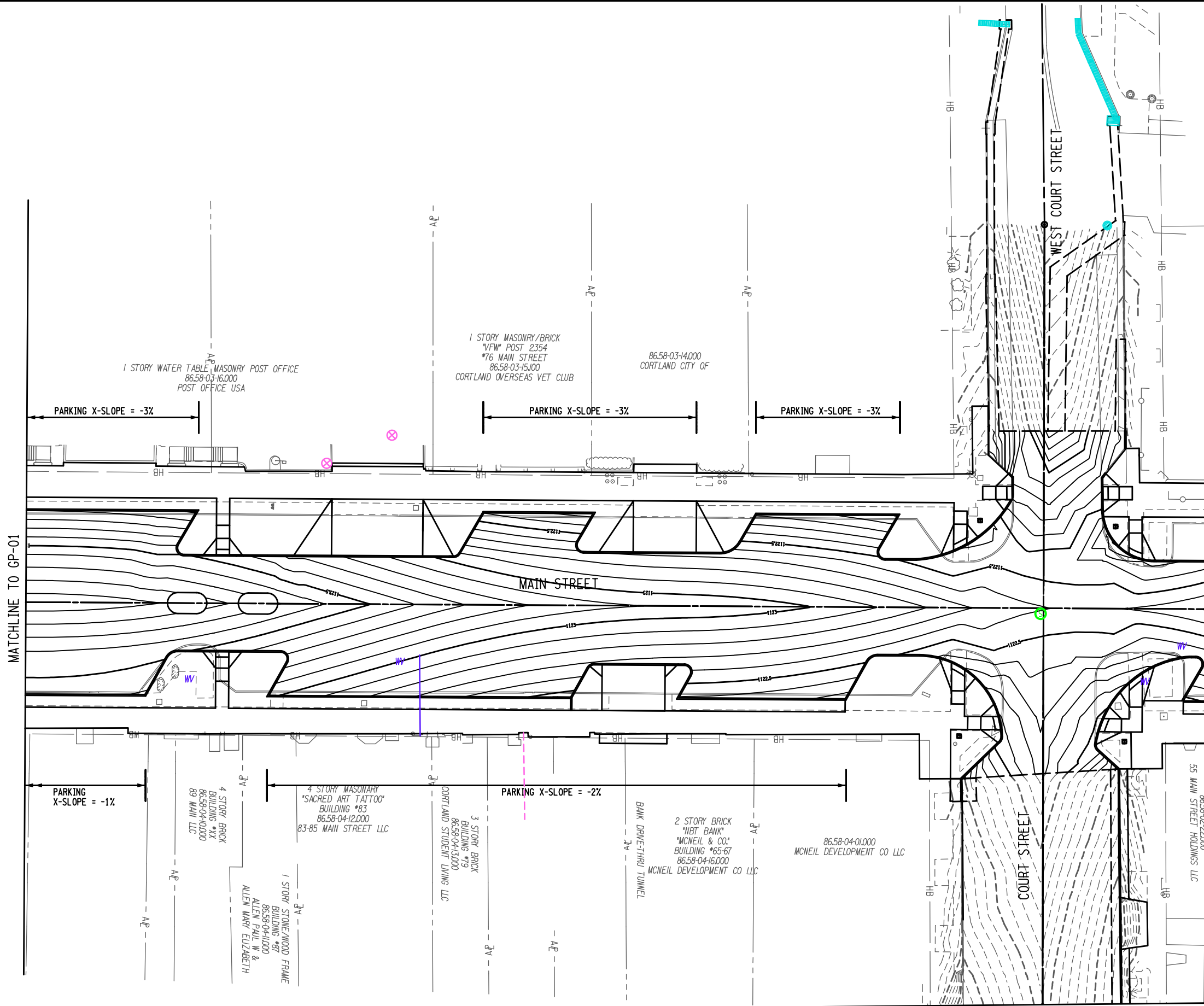
PROJECT  
MAIN STREET UTILITY  
IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK

TITLE OF DRAWING  
ROADWAY GRADING PLAN

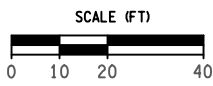
DRAWING NO.  
**GP-01**  
SHEET 165F2 OF 171

200395\_sph\_gp\_01\_LF2.dgn  
28-MAR-2023 12:47 \*TIME\*  
Jaymes

200395\_sph\_gp-02\_F2.dgn  
 28-MAR-2023 12:47  
 Jajmes



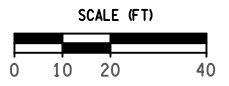
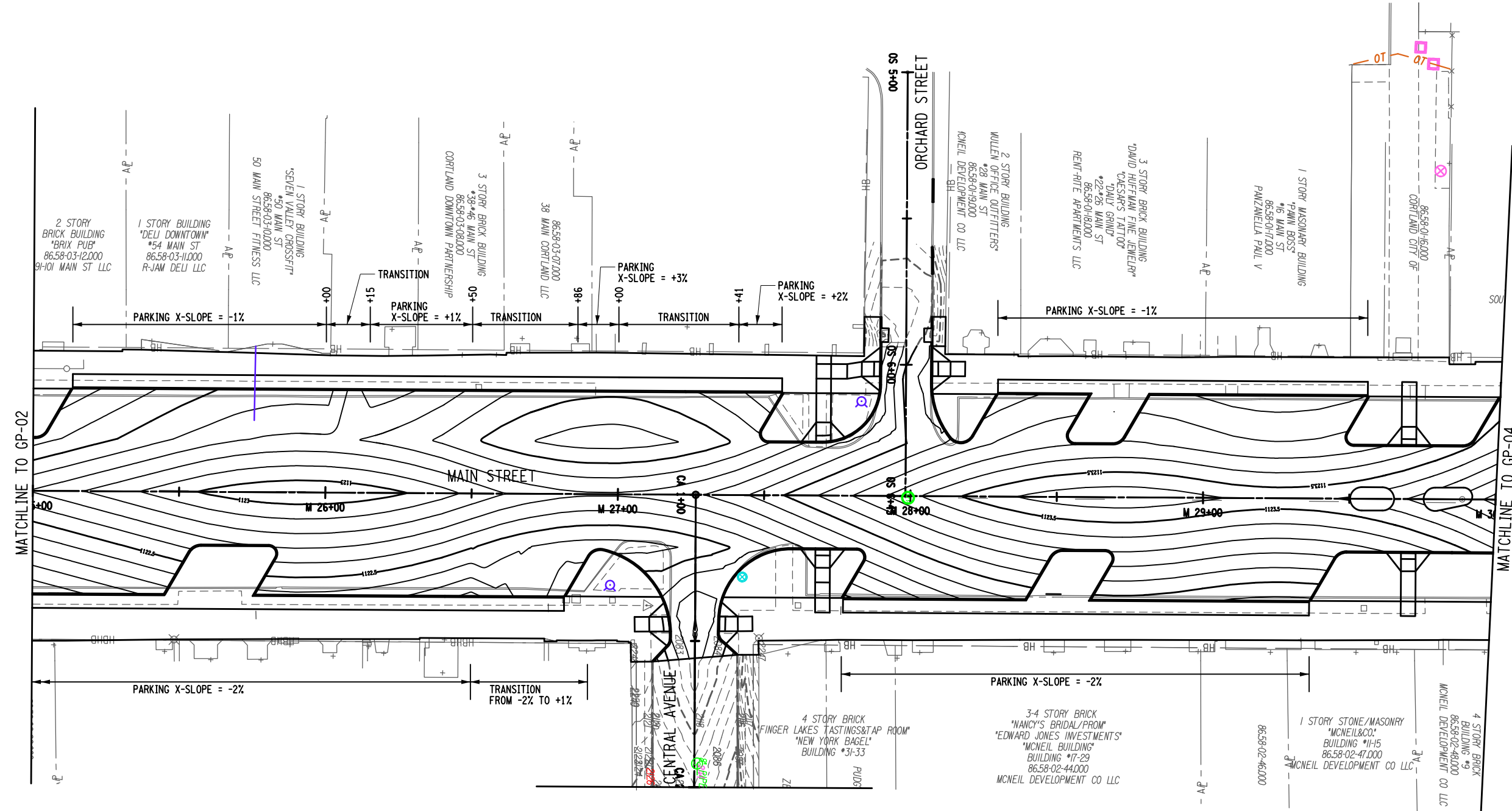
FIELD CHANGE SHEET  
 THIS SHEET SUPERSEDES SHEET 166F1



PROJECT MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK		TITLE OF DRAWING ROADWAY GRADING PLAN	
DRAWING NO. <b>GP-02</b>		SHEET 166F2 OF 171	
PROJECT NO. 200395		ISSUE DATE FEB. 2022	
PROJECT MANAGER T. FAULKNER		SCALE AS SHOWN	
DRAWN BY J. TANSKI		ISSUE DATE FEB. 2022	
PROFESSIONAL ENGINEER PETER WOOD		PROFESSIONAL ENGINEER 082814	
STATE OF NEW YORK		PROFESSIONAL ENGINEER	
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7	REV	DESCRIPTION	DATE
6	1	DRIVEWAY CHANGE	9/28/22
5	2	CURB LINE CHANGES	3/17/23
4	3		
3	4		
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1	6		

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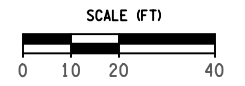
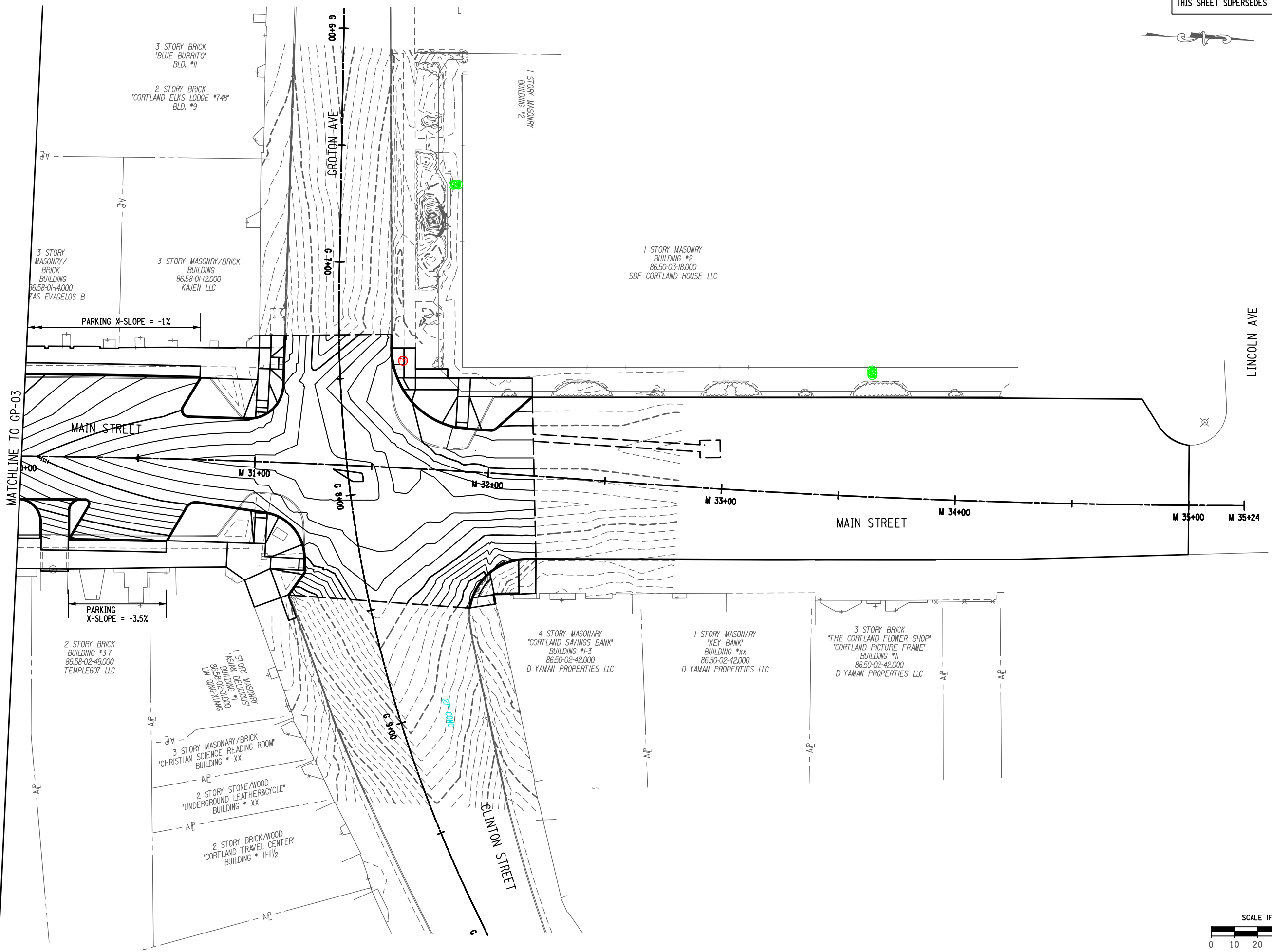
FIELD CHANGE SHEET  
 THIS SHEET SUPERSEDES SHEET 167F2



PROJECT		MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK	
TITLE OF DRAWING		ROADWAY GRADING PLAN	
DRAWING NO.		GP-03	
SHEET 167F3 OF 171			
PROJECT NO.	200395	ISSUE DATE	FEB. 2022
PROJECT MANAGER	T. FAULKNER	SCALE	AS SHOWN
DRAWN BY	J. TANSKI	ISSUE DATE	FEB. 2022
DATE	2/16/24	DESCRIPTION	TRD
REV	1	REVISED LABELS	JNT
REV	2	REVISED LABELS	JNT
REV	3	CURB LINE CHANGES	JNT
REV	4	CURB LINE CHANGES	JNT
REV	5	CURB LINE CHANGES	JNT
REV	6	CURB LINE CHANGES	JNT
REV	7	CURB LINE CHANGES	JNT



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200395\_sph\_gp-04\_f2.dgn  
28-MAR-2023 12:47 \*TIME\*  
Jaymes

REV	DESCRIPTION	DATE	BY
1	REVISED LABELS	9/28/22	JNT
2	CURB LINE CHANGES	3/27/23	JNT
3			
4			
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6			
7			

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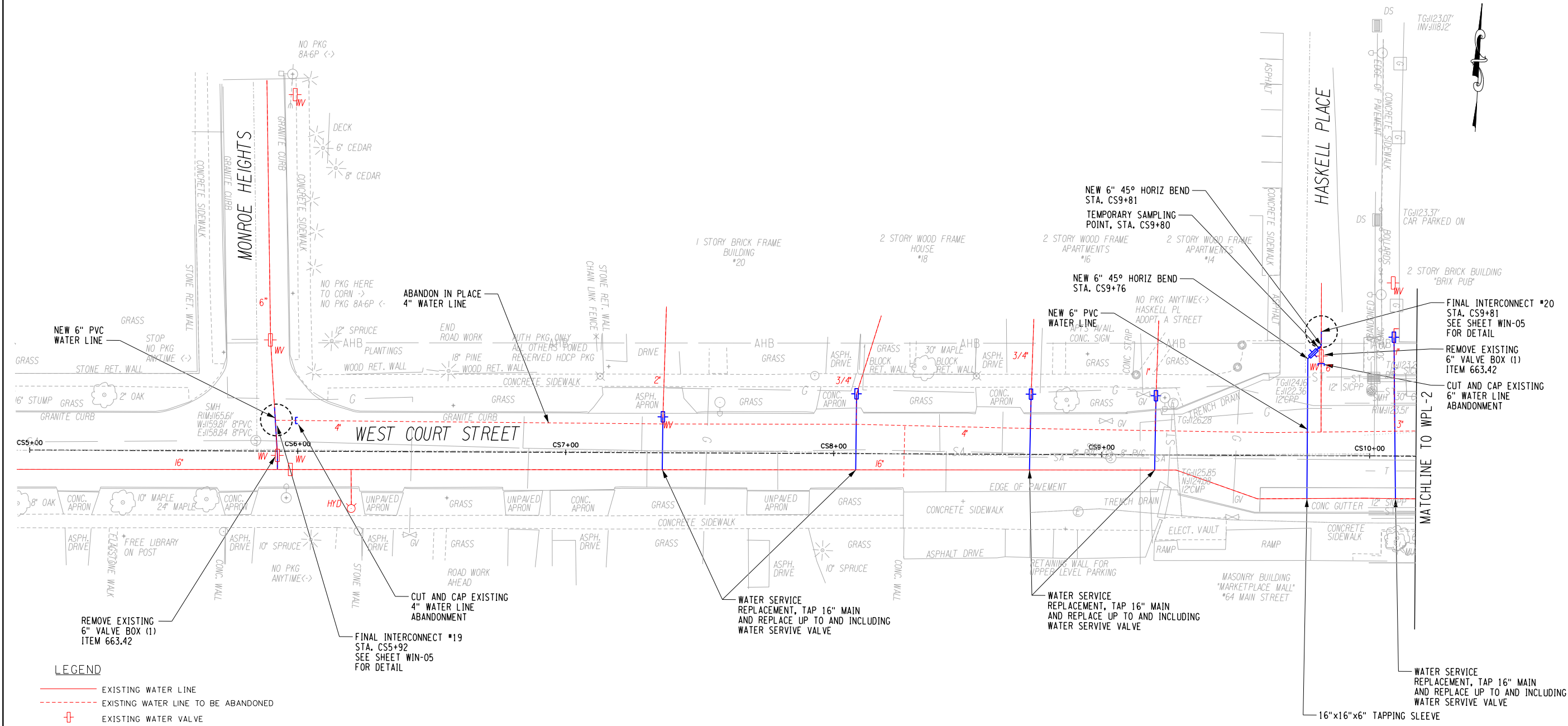
EA PROJECT NO.  
200395  
PROJECT MANAGER  
T. FAULKNER  
DRAWN BY  
J. TANSKI  
SCALE  
AS SHOWN  
ISSUE DATE  
FEB. 2022



PROJECT  
MAIN STREET UTILITY  
IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK  
TITLE OF DRAWING  
ROADWAY GRADING PLAN

DRAWING NO.  
**GP-04**  
SHEET 168F2 OF 171

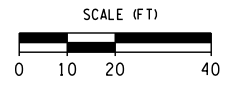
FIELD CHANGE SHEET



- LEGEND**
- EXISTING WATER LINE
  - - - EXISTING WATER LINE TO BE ABANDONED
  - ⊕ EXISTING WATER VALVE
  - ⊕ EXISTING HYDRANT
  - NEW WATER LINE
  - ⊕ NEW WATER VALVE
  - ⊕ NEW HYDRANT
  - ▬ NEW REDUCER
  - TEMPORARY SAMPLING POINT
  - ┘ NEW END CAP

- GENERAL NOTES:**
- THE EXISTING WATER LINE INFORMATION WAS OBTAINED FROM RECORDS DATING BACK TO THE LATE 1800'S.
  - SEE WTT DRAWINGS FOR PAY ITEM NUMBERS.
  - ALL WATER LINE PIPES AND FITTINGS SHALL BE RESTRAINED AS REQUIRED. SEE TABLE ON SHEET 663-02 FOR SPECIFIC LENGTHS.
  - FOR PROPOSED GAS LINE DESIGN, SEE DESIGN PLAN SET BY OTHERS.
  - FINAL WATER SERVICE CONNECTION FROM PROPOSED SERVICE TEE TO EXISTING WATER SERVICE AT FACE OF BUILDING, BY CONTRACTOR, UPGRADES TO EXISTING SERVICE FROM FACE OF BUILDING AND BUILDING INTERIOR, BY OTHERS.
  - ALL WORK AND MATERIALS ASSOCIATED WITH THRUST BLOCKING TO BE INCLUDED INTO THE UNIT PRICE FOR FITTING ITEM NUMBERS 663.2001 AND 663.2002.

- CONSTRUCTION SEQUENCING FOR THE WATER LINE IS AS FOLLOWS:**
- SET UP INITIAL LONG-TERM MAINTENANCE AND PROTECTION OF TRAFFIC.
  - INSTALL PROPOSED 16" DIAMETER INITIAL INTERCONNECTION WITH BACKFLOW PREVENTION ON WEST COURT AND COURT STREET, AND 12" DIAMETER MAINS UP TO FIRST VALVES (CLOSED POSITION) AND BLOW-OFF ASSEMBLIES.
  - INSTALL PROPOSED 12" DIAMETER DUAL MAINS IN A COMBINED TRENCH, HYDRANT, SIDE STREET LATERALS AND SERVICES TO VALVES (CLOSED POSITION) AND BLOW-OFF ASSEMBLIES.
    - SEE WTD-01 FOR TEMPORARY WATER SERVICE VALVE SAMPLING POINT DETAIL, PAID FOR UNDER 660.18510005.
  - SUBMIT FLUSHING, PRESSURE TESTING, AND DISINFECTION PLAN AND PROCEDURE TO ENGINEER AND CORTLAND WATER DEPARTMENT FOR APPROVAL.
  - CONDUCT PRESSURE AND BACTERIOLOGICAL TEST ON PARALLEL INSTALLED WATER LINES AND RECEIVE HEALTH DEPARTMENT AND WATER DEPARTMENT APPROVAL FOR CONNECTION.
  - CONNECT SERVICE LATERALS TO BUILDINGS.
  - CONNECT FINAL INTERCONNECTIONS TO SIDE STREETS AND MAINS.
  - INSTALL TEMPORARY RESTORATION MEASURES PER APPROVED CONSTRUCTION SEQUENCING PLAN.



REV	DESCRIPTION	DATE	BY
1	4" WATERMAIN ABANDON	9/30/22	BAK
2			
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 PROJECT MANAGER T. FAULKNER  
 DRAWN BY B. KNIGHTON  
 SCALE AS SHOWN  
 ISSUE DATE FEB. 2022



PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT  
 CITY OF CORTLAND  
 CORTLAND COUNTY, NEW YORK

TITLE OF DRAWING: WATERLINE DESIGN PLAN

DRAWING NO. WPL-9  
 SHEET 169F1 OF 171

DGN#SPEC01234567890123456789012345678901234  
 DGN#SYTIME0123456 \*TIME\$  
 DGN#USERNAME



MISCELLANEOUS APPURTANCES WATER LINE TABLE - CONTINUED ON NEXT PAGE

ITEM NUMBERS & DESCRIPTION																				
304.15 SUBBASE COURSE		402.428904 TEMPORARY TOP COURSE, HMA, 80 SERIES		663.2306 POLYETHYLENE ENCASEMENT FOR WATER MAINS																
620.0802 BEDDING MATERIAL, TYPE 2		520.09000010 SAW CUTTING ASPHALT CONCRETE		663.2308 POLYETHYLENE ENCASEMENT FOR WATER MAINS																
203.07 SELECT GRANULAR BACKFILL		520.55000015 SAW CUTTING CONCRETE PAVEMENT		663.2310 POLYETHYLENE ENCASEMENT FOR WATER MAINS																
206.0201 TRENCH AND CULVERT EXCAVATION		609.15000008 SAWCUT CURB		663.2312 POLYETHYLENE ENCASEMENT FOR WATER MAINS																
		663.2304 POLYETHYLENE ENCASEMENT FOR WATER MAINS		663.2316 POLYETHYLENE ENCASEMENT FOR WATER MAINS																
FROM STATION	OFFSET	TO STATION	OFFSET	SIDE	304.15 (CY)	620.0802 (CY)	203.07 (CY)	206.0201 (CY)	402.428904 (TON)	520.09000010 (LF)	520.55000015 (LF)	609.15000008 (LF)	663.2304 (LF)	663.2306 (LF)	663.2308 (LF)	663.2310 (LF)	663.2312 (LF)	663.2316 (LF)	REMARKS	
M25+74	33.30	M25+78	33.30	EAST								4								
M26+04	33.10	M26+08	33.10	EAST								4								
M26+10	33.40	M26+14	33.40	EAST								4								
M26+50	33.50	M26+54	33.50	EAST								4								
M26+63	33.60	M26+67	33.60	EAST								4								
M27+00	17.60	M27+04	15.80	EAST								4								
M27+72	34.00	M27+76	34.00	EAST								4								
M27+87	34.00	M27+91	34.00	EAST								4								
M28+75	37.50	M28+79	37.50	EAST								4								
M29+49	36.50	M29+53	36.50	EAST								4								
M29+92	37.00	M29+96	37.00	EAST								4								
CA1+54	15.80	CA1+58	15.80	NORTH								4								
M25+52	33.50	M25+56	33.50	WEST								4								
M25+80	33.10	M25+84	33.10	WEST								4								
M26+10	36.30	M26+14	36.30	WEST								4								
M26+26	36.20	M26+30	36.20	WEST								4								
M26+42	35.90	M26+46	35.90	WEST								4								
M26+65	36.20	M26+69	36.20	WEST								4								
M27+40	36.40	M27+44	36.40	WEST								4								
OS5+34	9.40	OS5+48	9.40	NORTH								14								
OS5+54	8.80	OS5+71	8.80	NORTH								17								
M28+36	34.00	M28+40	34.00	WEST								4								
M28+45	33.40	M28+49	33.40	WEST								4								
M28+54	34.20	M28+58	34.20	WEST								4								
M29+12	36.00	M29+16	36.00	WEST								4								
M27+60	21.20	M27+64	18.20	WEST								4								
M30+24	36.10	M30+38	36.10	WEST								4								
M30+66	36.50	M30+70	36.50	WEST								4								
M30+06	36.00	M30+10	36.00	EAST								4								
M30+54	34.70	M30+58	34.70	EAST								4								
M31+73	10.40	M31+77	11.00	EAST								4								
G8+29	24.20	G8+33	28.40	EAST								4								
M19+06	12.80	M19+06	50.70	WEST	2.5	5.0	25	25	6	36	44		0	45	0					
M19+13	12.90	M19+13	50.40	WEST	2.7	5.4	28	28	7	36	46		0	49	0					
M19+18	12.50	M19+18	48.50	EAST	3.7	7.3	37	37	9	42	38		66	0	0					
M19+38	12.80	M19+38	50.30	WEST	2.4	4.9	25	25	6	50	32		44	0	0					
M19+38	12.70	M19+38	49.10	EAST	3.7	7.3	37	37	9	46	30		66	0	0					
M19+52	12.60	M19+51	50.40	WEST	2.7	5.3	27	27	6	34	50		0	48	0					
M19+84	13.30	M19+84	48.50	EAST	3.1	6.2	32	32	8	40	32		56	0	0					
M20+01	13.30	M20+01	49.00	EAST	3.4	6.9	35	35	8	40	36		62	0	0					
M20+32	13.30	M20+32	48.50	EAST	3.7	7.3	37	37	9	42	34		66	0	0					
M20+81	13.10	M20+81	48.00	EAST	3.6	7.2	37	37	9	48	28		65	0	0					
M21+27	13.00	M21+27	50.10	EAST	3.6	7.1	36	36	9	40	38		64	0	0					
M21+53	12.90	M21+53	49.90	EAST	3.4	6.8	34	34	8	42	34		61	0	0					
M21+89	12.90	M21+89	49.50	EAST	3.6	7.1	36	36	9	42	38		64	0	0					
M21+93	12.90	M21+93	49.40	EAST	3.6	7.1	36	36	9	42	38		0	64	0					

DGN#SPEC01234567890123456789012345678901234  
 DGN#SYTIME0123456 \*TIME\*  
 DGN#USER#NAME

PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK  
 TITLE OF DRAWING: MISC. APPURTANCES WATER LINE TABLE (SHEET 4 OF 5)

PROJECT NO. WTT-25

SHEET 170F1 OF 171

FA PROJECT NO. 200395  
 PROJECT MANAGER T. FAULKNER  
 DRAWN BY B. KNIGHTON  
 SCALE AS SHOWN  
 ISSUE DATE FEB. 2022

FISHER ASSOCIATES  
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STATE OF NEW YORK  
 EDWARD W. KOSTOWNIK  
 LICENSED PROFESSIONAL ENGINEER  
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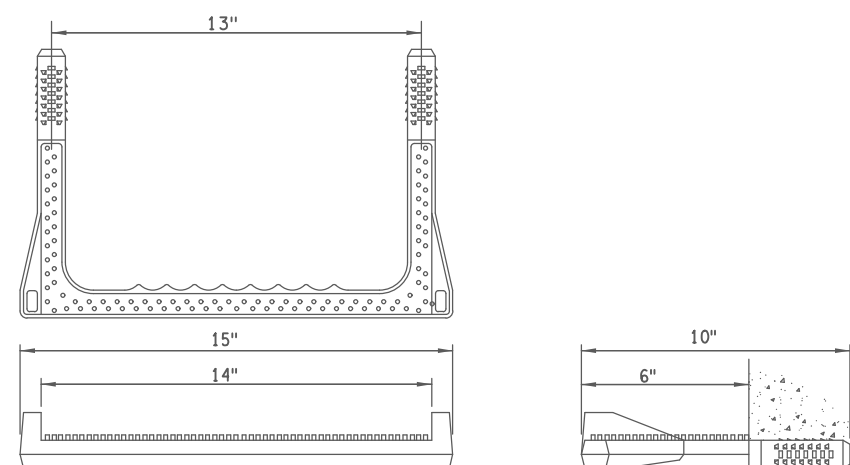
7	REV	DESCRIPTION	DATE
6			
5			
4			
3		WATERMAIN REDESIGN	9/30/22
2		REV ITEM# REV QUANTITY #	4/22/22
1		ADDED # 663.2316 REV 663.42	4/15/22

MISCELLANEOUS APPURTANCES WATER LINE TABLE

ITEM NUMBERS & DESCRIPTION																		402.428904 TEMPORARY TOP COURSE, HMA, 80 SERIES																		663.2306 POLYETHYLENE ENCASEMENT FOR WATER MAINS																	
304.15 SUBBASE COURSE																		520.09000010 SAW CUTTING ASPHALT CONCRETE																		663.2308 POLYETHYLENE ENCASEMENT FOR WATER MAINS																	
620.0802 BEDDING MATERIAL, TYPE 2																		520.55000015 SAW CUTTING CONCRETE PAVEMENT																		663.2310 POLYETHYLENE ENCASEMENT FOR WATER MAINS																	
203.07 SELECT GRANULAR BACKFILL																		609.15000008 SAWCUT CURB																		663.2312 POLYETHYLENE ENCASEMENT FOR WATER MAINS																	
206.0201 TRENCH AND CULVERT EXCAVATION																		663.2304 POLYETHYLENE ENCASEMENT FOR WATER MAINS																		663.2316 POLYETHYLENE ENCASEMENT FOR WATER MAINS																	
FROM STATION	OFFSET	TO STATION	OFFSET	SIDE	304.15 (CY)	620.0802 (CY)	203.07 (CY)	206.0201 (CY)	402.428904 (TON)	520.09000010 (LF)	520.55000015 (LF)	609.15000008 (LF)	663.2304 (LF)	663.2306 (LF)	663.2308 (LF)	663.2310 (LF)	663.2312 (LF)	663.2316 (LF)	REMARKS																																		
M22+05	12.90	M22+05	49.40	EAST	3.6	7.1	36	36	9	42	38		64	0	0																																						
M22+20	15.40	M22+20	83.10	WEST	4.1	8.2	42	42	10	42	104		0	74	0																																						
M22+30	12.90	M22+30	49.40	EAST	3.7	7.4	38	38	9	44	42		67	0	0																																						
M22+48	12.80	M22+48	50.30	EAST	3.7	7.3	37	37	9	44	40		66	0	0																																						
M23+14	14.90	M23+14	285.50	WEST	15.0	30.0	152	152	36	36	504		270	0	0																																						
M23+21	14.80	M23+21	50.70	WEST	2.5	5.0	25	25	6	36	40		0	0	45																																						
M23+33	14.70	M23+33	50.70	WEST	2.6	5.2	26	26	6	36	40		0	47	0																																						
M25+08	12.10	M25+08	51.70	EAST	3.9	7.8	39	39	9	42	42		70	0	0																																						
M25+55	9.50	M25+55	45.40	WEST	2.5	5.0	25	25	6	46	42		45	0	0																																						
M25+76	11.90	M25+76	50.40	EAST	3.7	7.3	37	37	9	42	44		66	0	0																																						
M25+83	9.80	M25+83	50.50	WEST	2.6	5.1	26	26	6	42	42		46	0	0																																						
M26+06	11.40	M26+06	50.20	EAST	3.5	7.0	35	35	9	40	42		63	0	0																																						
M26+12	11.30	M26+12	50.20	EAST	3.5	7.0	35	35	9	40	42		63	0	0																																						
M26+12	10.70	M26+12	50.00	WEST	2.4	4.8	24	24	6	50	30		43	0	0																																						
M26+27	11.50	M26+27	47.30	WEST	2.5	5.0	25	25	6	46	36		45	0	0																																						
M26+45	11.80	M26+45	47.30	WEST	2.5	5.0	25	25	6	46	36		45	0	0																																						
M26+52	11.40	M26+52	49.90	EAST	3.8	7.6	38	38	9	44	38		68	0	0																																						
M26+65	11.40	M26+65	50.20	EAST	3.8	7.6	38	38	9	44	38		0	68	0																																						
M26+67	11.60	M26+67	49.00	WEST	2.5	5.0	25	25	6	48	32		45	0	0																																						
M27+43	11.40	M27+43	48.70	WEST	2.5	5.0	25	25	6	48	32		45	0	0																																						
M27+74	11.60	M27+74	49.80	EAST	3.6	7.1	36	36	9	50	28		64	0	0																																						
M27+88	11.80	M27+88	49.90	EAST	3.6	7.1	36	36	9	50	28		64	0	0																																						
M28+38	12.50	M28+38	35.50	WEST	2.3	4.6	23	23	6	42.0	38.0		41	0	0																																						
M28+48	12.50	M28+48	35.50	WEST	2.3	4.6	23	23	6	42.0	38.0		41	0	0																																						
M28+57	12.50	M28+57	35.50	WEST	2.3	4.6	23	23	6	42.0	38.0		41	0	0																																						
M28+77	20.70	M28+77	48.80	EAST	3.8	7.6	38	38	9	26.0	40.0		0	0	68																																						
M29+14	12.70	M29+14	35.70	WEST	2.6	5.2	26	26	6	42.0	40.0		47	0	0																																						
M29+51	20.70	M29+51	48.50	EAST	3.7	7.3	37	37	9	26.0	40.0		66	0	0																																						
M29+93	20.70	M29+93	48.00	EAST	3.6	7.2	37	37	9	26.0	40.0		65	0	0																																						
M30+11	20.70	M30+11	48.00	EAST	3.7	7.4	38	38	9	26.0	32.0		0	67	0																																						
M30+26	30.10	M30+26	47.40	WEST	2.3	4.6	23	23	6	42.0	34.0		41	0	0																																						
M30+59	27.00	M30+59	47.00	EAST	3.9	7.9	40	40	10	26.0	38.0		71	0	0																																						
M30+67	13.70	M30+67	48.00	WEST	2.7	5.3	27	27	6	42.0	38.0		48	0	0																																						
CS12+08	12.70	CS12+08	45.30	NORTH	3.5	7.0	35	35	9	31.2	40.8		63	0	0																																						
CS12+25	12.00	CS12+25	47.00	SOUTH	2.3	4.6	23	23	6	44.0	32.0		41	0	0																																						
CA1+59	0.30	CA01+59	21.80	NORTH	1.4	2.8	14	14	3	29.0	43.0		25	0	0																																						
OS5+58	4.50	OS05+58	13.80	NORTH	0.7	1.3	7	7	2	8.4	15.6		12	0	0																																						
OS5+67	4.50	OS05+67	13.80	NORTH	0.7	1.3	7	7	2	8.4	15.6		12	0	0																																						
CS7+36	-6.00	CS7+36	14.00	NORTH	1.1	2.2	11	11	3	40																																											
CS8+08	-6.00	CS8+08	22.00	NORTH	1.6	3.2	16	16	4	47	11	4																																									
CS8+73	-6.00	CS8+73	22.00	NORTH	1.6	3.1	16	16	4	42	14	4																																									
CS9+20	-6.00	CS9+20	22.00	NORTH	1.6	3.1	16	16	4	46	10	4																																									
CS10+09	-16.00	CS10+09	44.00	NORTH	3.7	7.4	37	37	9	84	49	4																																									
TOTALS					450	890	4500	4500	1080	11610	2750	300	2640	1120	450	80	3260	270																																			

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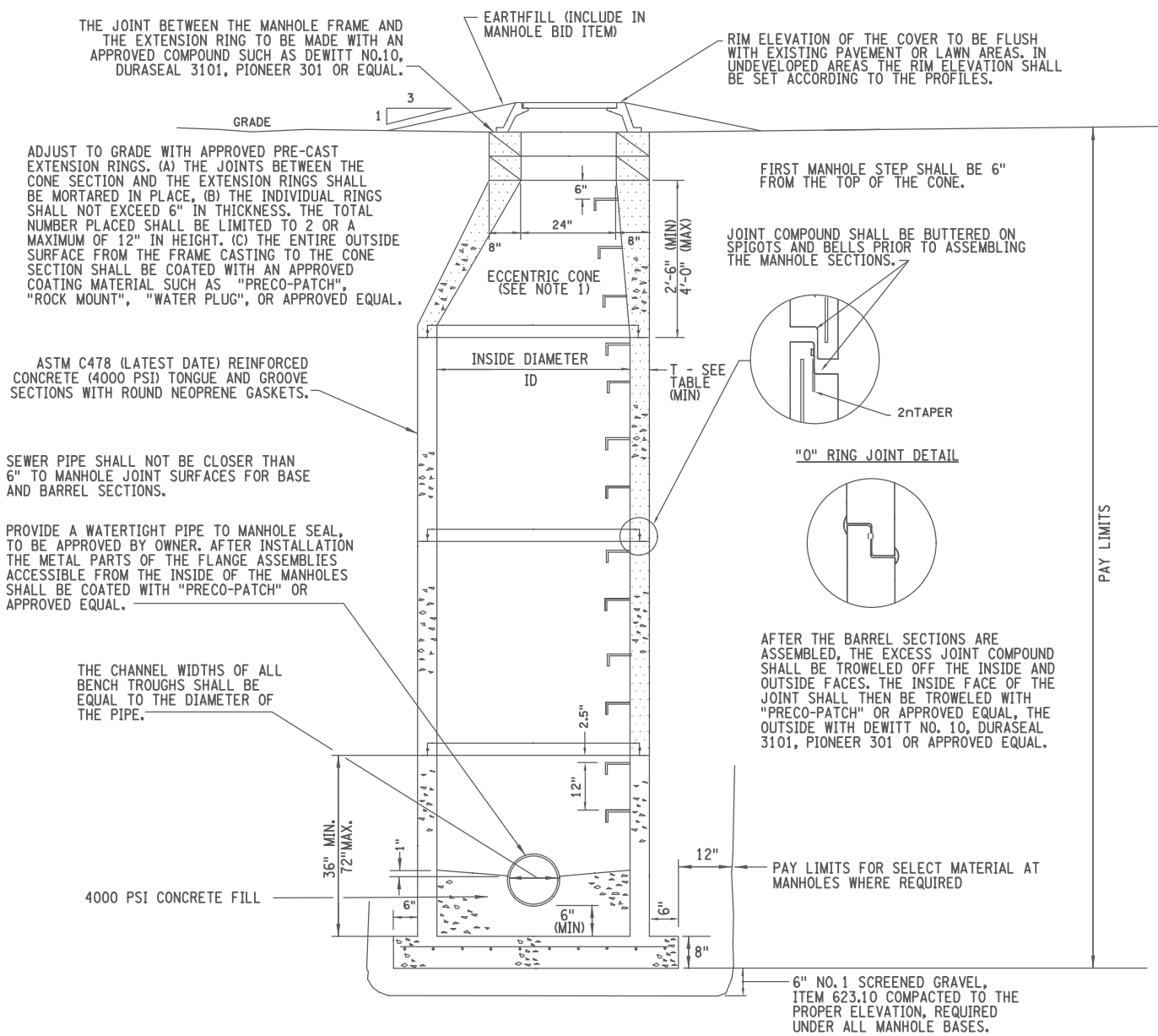
7	6	5	4	3	2	1	REV		
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PROJECT NO. 200395 PROJECT MANAGER T. FAULKNER DRAWN BY B. KNIGHTON SCALE AS SHOWN ISSUE DATE FEB. 2022									
									
									
PROJECT MAIN STREET UTILITY IMPROVEMENT PROJECT CITY OF CORTLAND CORTLAND COUNTY, NEW YORK TITLE OF DRAWING MISC. APPURTANCES WATER LINE TABLE (SHEET 5 OF 5)									
DRAWING NO. <h1 style="margin: 0;">WTT-26</h1>									
SHEET 171F1 OF 171									



**NOTES**

- MANHOLE STEPS SHALL BE COPOLYMER POLYPROPYLENE ENCAPSULATED STEEL IN ACCORDANCE WITH ASTM C478, MOUNTED 12" ON CENTER.
- THE STEPS SHALL BE EMBEDDED IN THE WALLS OF THE CONCRETE PIPE BARREL WHILE THE PIPE IS BEING CAST OR SECURELY GROUTED IN PLACE AFTER CASTING.
- THE COST FOR FURNISHING AND INSTALLING THE MANHOLE STEPS IS INCLUDED IN THE PRICE BID FOR MANHOLES, ITEM 604.5003XX.

**STANDARD MANHOLE STEP  
REINFORCED COPOLYMER POLYPROPYLENE TYPE**  
NOT TO SCALE



THE JOINT BETWEEN THE MANHOLE FRAME AND THE EXTENSION RING TO BE MADE WITH AN APPROVED COMPOUND SUCH AS DEWITT NO.10, DURASEAL 3101, PIONEER 301 OR EQUAL.

EARTHFILL (INCLUDE IN MANHOLE BID ITEM)

RIM ELEVATION OF THE COVER TO BE FLUSH WITH EXISTING PAVEMENT OR LAWN AREAS. IN UNDEVELOPED AREAS THE RIM ELEVATION SHALL BE SET ACCORDING TO THE PROFILES.

ADJUST TO GRADE WITH APPROVED PRE-CAST EXTENSION RINGS. (A) THE JOINTS BETWEEN THE CONE SECTION AND THE EXTENSION RINGS SHALL BE MORTARED IN PLACE. (B) THE INDIVIDUAL RINGS SHALL NOT EXCEED 6" IN THICKNESS. THE TOTAL NUMBER PLACED SHALL BE LIMITED TO 2 OR A MAXIMUM OF 12" IN HEIGHT. (C) THE ENTIRE OUTSIDE SURFACE FROM THE FRAME CASTING TO THE CONE SECTION SHALL BE COATED WITH AN APPROVED COATING MATERIAL SUCH AS "PRECO-PATCH", "ROCK MOUNT", "WATER PLUG", OR APPROVED EQUAL.

ASTM C478 (LATEST DATE) REINFORCED CONCRETE (4000 PSI) TONGUE AND GROOVE SECTIONS WITH ROUND NEOPRENE GASKETS.

SEWER PIPE SHALL NOT BE CLOSER THAN 6" TO MANHOLE JOINT SURFACES FOR BASE AND BARREL SECTIONS.

PROVIDE A WATERTIGHT PIPE TO MANHOLE SEAL, TO BE APPROVED BY OWNER. AFTER INSTALLATION THE METAL PARTS OF THE FLANGE ASSEMBLIES ACCESSIBLE FROM THE INSIDE OF THE MANHOLES SHALL BE COATED WITH "PRECO-PATCH" OR APPROVED EQUAL.

THE CHANNEL WIDTHS OF ALL BENCH TROUGHS SHALL BE EQUAL TO THE DIAMETER OF THE PIPE.

4000 PSI CONCRETE FILL

FIRST MANHOLE STEP SHALL BE 6" FROM THE TOP OF THE CONE.

JOINT COMPOUND SHALL BE BUTTERED ON SPIGOTS AND BELLS PRIOR TO ASSEMBLING THE MANHOLE SECTIONS.

"0" RING JOINT DETAIL

AFTER THE BARREL SECTIONS ARE ASSEMBLED, THE EXCESS JOINT COMPOUND SHALL BE TROWELED OFF THE INSIDE AND OUTSIDE FACES. THE INSIDE FACE OF THE JOINT SHALL THEN BE TROWELED WITH "PRECO-PATCH" OR APPROVED EQUAL, THE OUTSIDE WITH DEWITT NO. 10, DURASEAL 3101, PIONEER 301 OR APPROVED EQUAL.

PAY LIMITS

PAY LIMITS FOR SELECT MATERIAL AT MANHOLES WHERE REQUIRED

6" NO. 1 SCREENED GRAVEL, ITEM 623.10 COMPACTED TO THE PROPER ELEVATION, REQUIRED UNDER ALL MANHOLE BASES.

TYPE	T	ITEM NO.
48	6"	604.500301
60	6"	604.500302
72	6"	604.500303
96	6"	604.500304

**SANITARY SEWER MANHOLES**  
NOT TO SCALE

**NOTES**

- MANHOLES LESS THAN 84" DEEP FROM INVERT TO FRAME AND COVER, SHALL HAVE A FLAT SLAB TOP MEETING THE REQUIREMENTS OF THE NYSDOT STANDARD SHEETS AND STANDARD SPECIFICATIONS.

200395\_sph\_wtd\_sanitary\_details\_sdi.dgn  
28-OCT-2022 18:47  
J. Tanski

7	REV	DESCRIPTION	DATE	BY
6				
5				
4				
3				
2				
1				

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EA PROJECT NO. 200395  
PROJECT MANAGER T. FAULKNER  
DRAWN BY J. TANSKI  
SCALE AS SHOWN  
ISSUE DATE FEB. 2022

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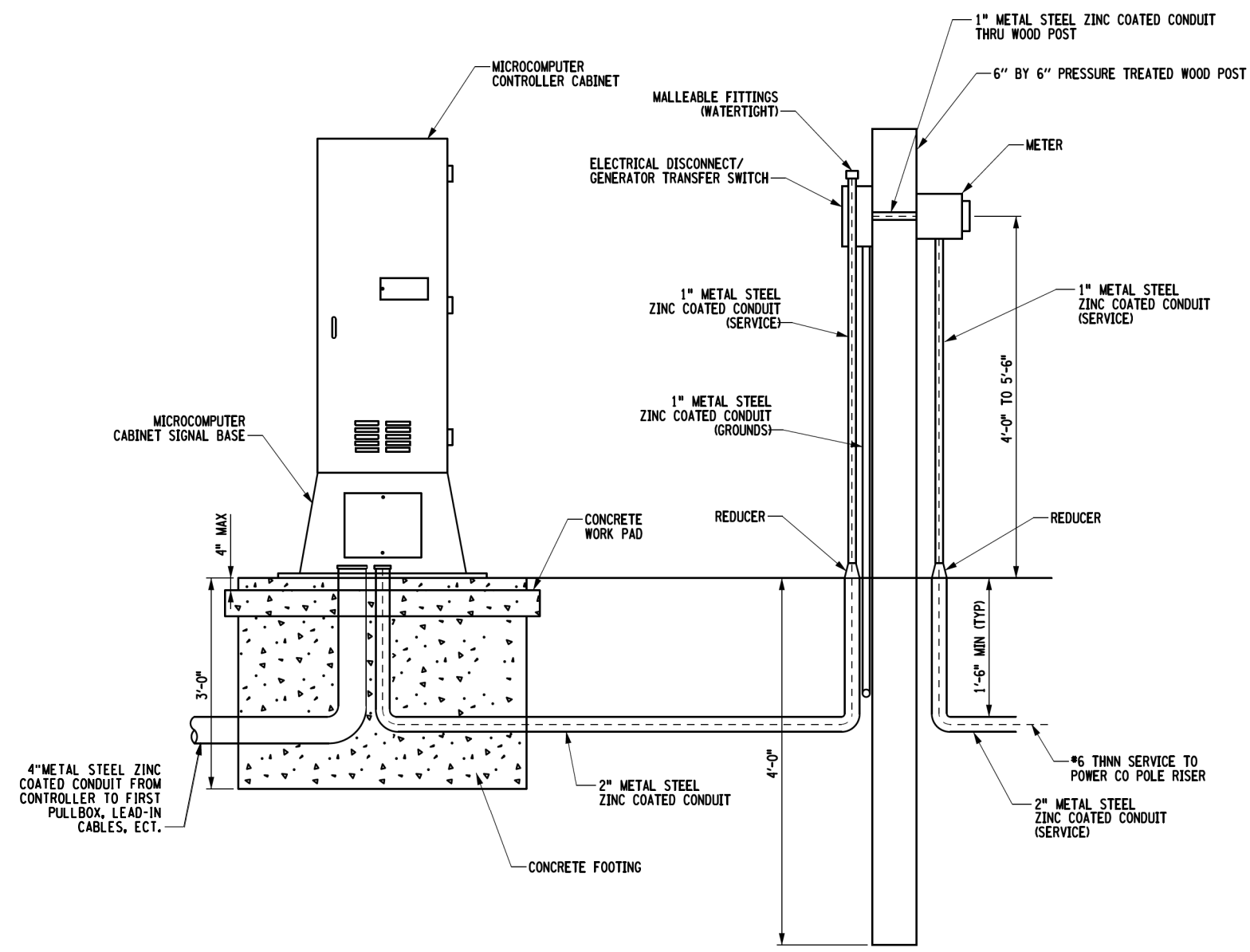
PROJECT: MAIN STREET UTILITY IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK

TITLE OF DRAWING: SANITARY SEWER DETAIL

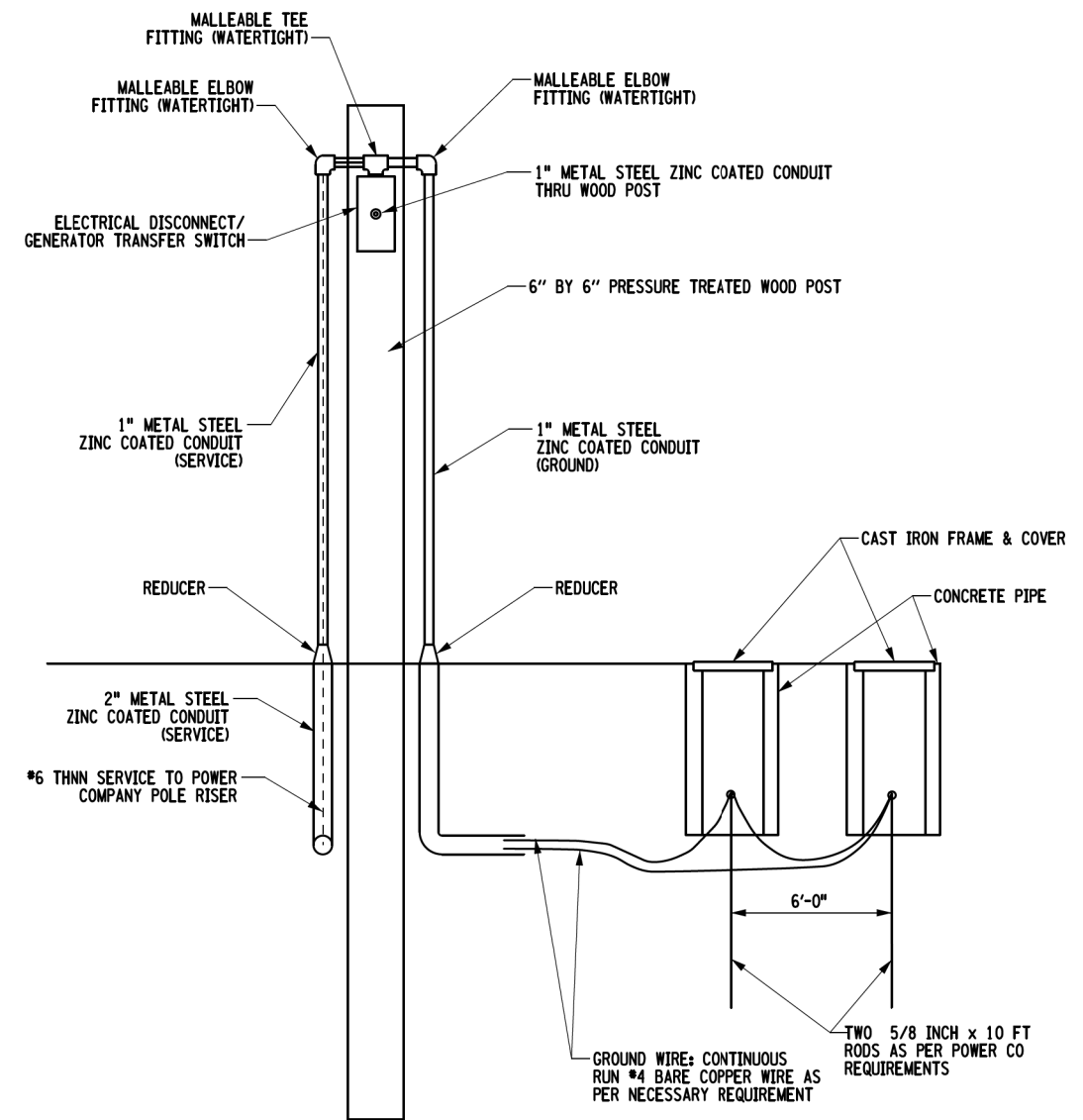
DRAWING NO. SD-1

SHEET 172F OF 171

FIELD CHANGE SHEET  
THIS SHEET DOES NOT SUPERSEDE OR  
SUPPLEMENT ANY SHEET



FULL INSTALLATION FRONT VIEW



METER POST INSTALLATION SIDE VIEW

UNDERGROUND SERVICE - GROUND MOUNTED CONTROLLER CABINET WITH METER POST  
NOTE: SEE STD SHEET 680-04 FOR ADDITIONAL GROUNDING DETAILS

H:\Projects\200395-08-Main.Stt\Eng\CAD\CUT\200395.sph.mcd MD-06-F173.dgn  
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 Jaymes

PROJECT NO.	200395	PROJECT MANAGER	T. FAULKNER	ISSUE DATE	FEB. 2022
DATE		SCALE	AS SHOWN	DATE	
DESCRIPTION		ISSUE NO.	1	DATE	
BY		ISSUE DATE	FEB. 2022	DATE	
REV	1	ISSUE NO.	1	DATE	
2		ISSUE NO.		DATE	
3		ISSUE NO.		DATE	
4		ISSUE NO.		DATE	
5		ISSUE NO.		DATE	
6		ISSUE NO.		DATE	
7		ISSUE NO.		DATE	



PROJECT  
MAIN STREET UTILITY  
IMPROVEMENT PROJECT  
CITY OF CORTLAND  
CORTLAND COUNTY, NEW YORK

TITLE OF DRAWING  
MISCELLANEOUS DETAILS

DRAWING NO.  
**MD-06**