



## SURVEYING PARAMETERS

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

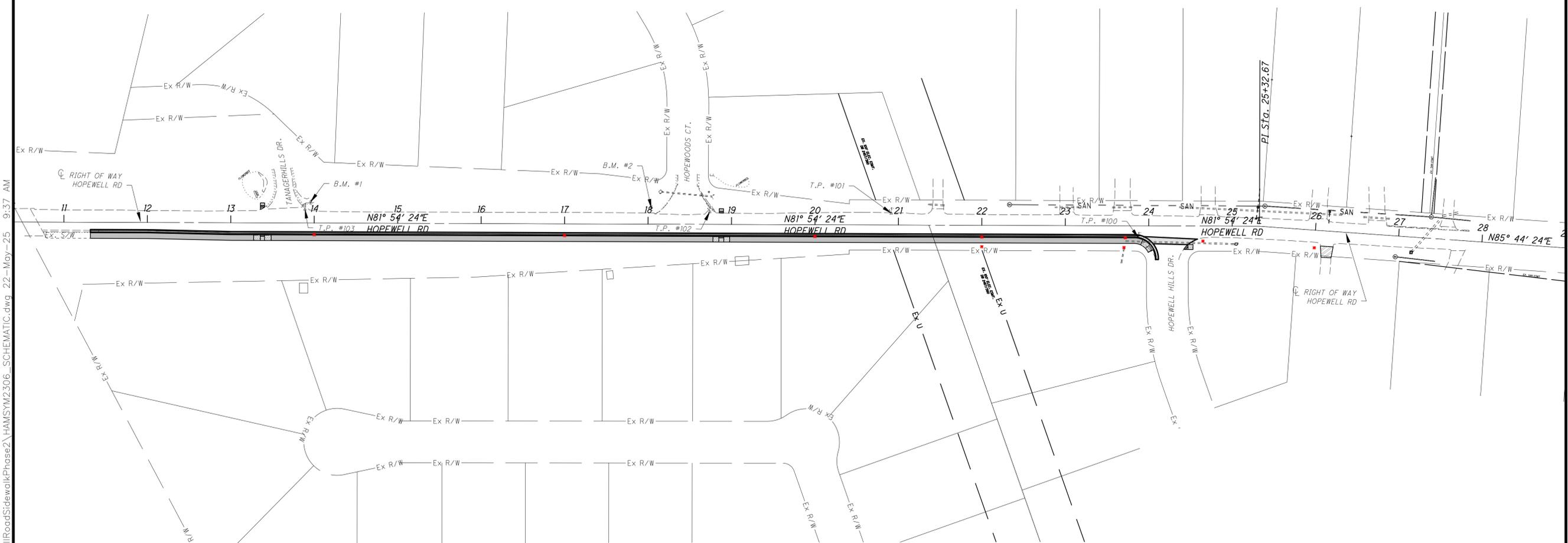
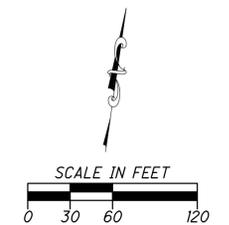
**PROJECT CONTROL**  
 POSITIONING METHOD: GPS OBSERVATIONS  
 MONUMENT TYPE: HAMILTON CO. CONTROL POINT BRASS DISC IN CONCRETE MONUMENT.

**VERTICAL POSITIONING**  
 ORTHOMETRIC HEIGHT DATUM: NAVD 29  
 GEOID: 12A

REFERENCE FRAME: NAD 83 (86)  
 ELLIPSOID: GRS 80  
 MAP PROJECTION: LAMBERT CONFORMAL CONIC  
 COORDINATE SYSTEM: OHIO STATE PLANE SOUTH ZONE 3402  
 SCALE FACTOR: 1.00000000  
 LATITUDE: 459927.9280  
 LONGITUDE: 1457506.6380

UNITS ARE IN U.S. SURVEY FEET. USE THE FOLLOWING CONVERSION FACTOR:  
 1 METER = 3.280833333 U.S. SURVEY FEET

**COORDINATES**  
 ALL COORDINATES LISTED ARE PROJECT GROUND COORDINATES.



## VERTICAL CONTROL

BENCHMARK #1	ELEV. 731.33	PT.# 90221
MAG NAIL IN LIGHT POLE AT THE INTERSECTION OF HOPEWELL AND TANAGERHILLS.		
STA. 23+14.46		
BENCHMARK #2	ELEV. 714.49	PT.# 35101
MAG NAIL IN LIGHTPOLE AT THE INTERSECTION OF HOPEWELL AND HOPEWOODS.		
STA. 17+88.93		

**ITEM 623 CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN**  
 THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 623 CONSTRUCTION LAYOUT STAKES, EXCEPT AS HEREIN MODIFIED.

THE VERTICAL CONTROL IS LISTED ON THE PLANS WITH THE BENCHMARKS. TRAVERSE POINTS ARE SHOWN BELOW FOR HORIZONTAL CONTROL. THE BEARINGS ARE LISTED FOR THE CENTERLINE OF CONSTRUCTION.

PAYMENT FOR ITEM 623 CONSTRUCTION LAYOUT STAKES, AS PER PLAN, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT LUMP SUM BID PRICE, AND SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT, REQUIRED TO COMPLETE THIS ITEM OF WORK.

HORIZONTAL CONTROL						
Point #	Description	Northing	Easting	Elevation	Station	Offset
100	MAG NAIL	460028.1260	1458432.4680	698.53	23+87.77	14.303' RT
101	MAG NAIL	460014.4960	1458134.9760	705.61	20+91.33	14.085' LT
102	MAG NAIL	459984.9810	1457919.5790	711.57	18+73.92	15.189' LT
103	MAG NAIL	459917.9090	1457439.1490	730.68	13+88.83	16.423' LT

SEGMENT TABLE				
ALIGNMENT	DESCRIPTION	STATION	NORTHING	EASTING
HOPEWELL RD	PI	9+50.00	459839.868	1457007.000
HOPEWELL RD	PI	25+32.67	460062.686	1458573.908
HOPEWELL RD	PI	31+00.00	460104.829	1459139.669

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SIDNEY, OHIO 937.497.0200  
LOVELAND, OHIO 513.239.8554  
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**HOPEWELL ROAD SIDEWALK, PHASE 2**

**SYMMES TOWNSHIP**

**SCHEMATIC PLAN**

REVISIONS:

FILE NAME	HAMSYM2306_SCHEMATIC
DRAWN BY	IJJW
CHECKED BY	TAN
PROJECT No.	HAMSYM2306
DATE	05-22-2025
SHEET NUMBER	2 OF 26

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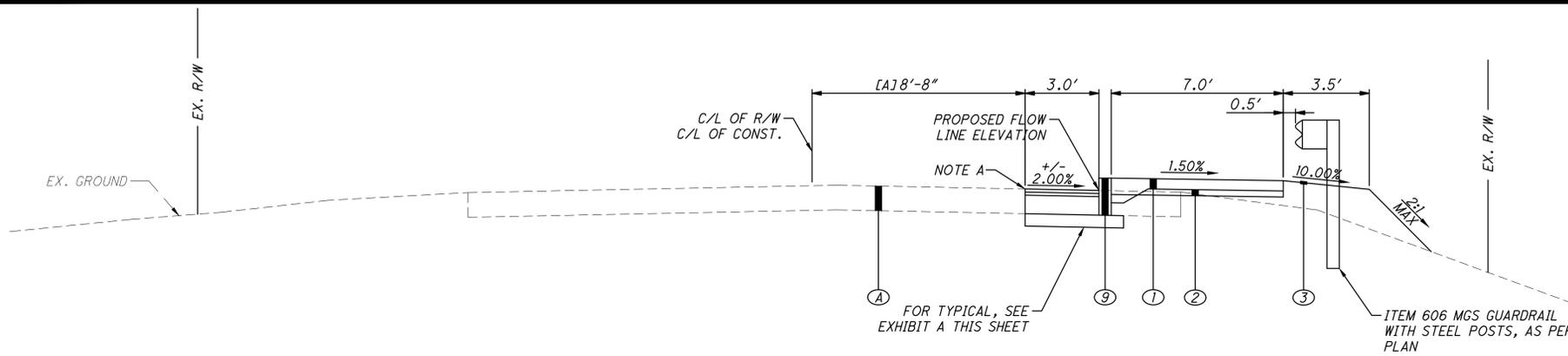
**HATCH LEGEND FOR PLANS**

- CONCRETE WALK**
- ITEM 608 - 5" CONCRETE WALK, AS PER PLAN
  - ITEM 411 - 3" STABILIZED CRUSHED AGGREGATE
- CURB RAMP**
- ITEM 608 - CURB RAMP, AS PER PLAN
  - ITEM 411 - 3" STABILIZED CRUSHED AGGREGATE
- ASPHALT PAVEMENT REPAIR**
- ITEM 441 - 1-1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449) PG 64-22
  - ITEM 407 - NON-TRACKING TACK COAT, (0.06 GAL/SY)
  - ITEM 441 - 1-1/2" ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 1, (449)
  - ITEM 407 - NON-TRACKING TACK COAT, (0.06 GAL/SY)
  - ITEM 301 - 9" ASPHALT CONCRETE BASE, PG64-22 (449) (TWO 4.5" LIFTS)
  - ITEM 304 - 6" AGGREGATE BASE
- RESIDENTIAL CONCRETE DRIVEWAYS**
- ITEM 452 - 7" NON-REINFORCED CONCRETE PAVEMENT, AS PER PLAN
  - ITEM 411 - 3" STABILIZED CRUSHED AGGREGATE

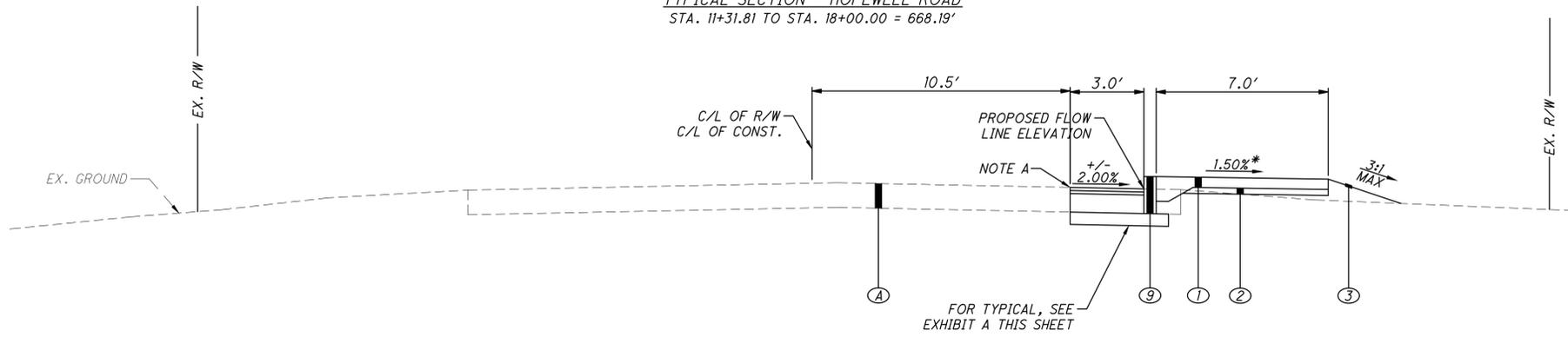
**LEGEND**

- (ATG) - ADJUST TO GRADE
- (DND) - DO NOT DISTURB
- (R&R) - REMOVE AND RESET
- (TBR) - TO BE REMOVED
- (TBA) - TO BE ABANDONED
- (TBRLBO) - TO BE RELOCATED BY OTHERS

**TYPICAL SECTION - HOPEWELL ROAD**  
STA. 11+31.81 TO STA. 18+00.00 = 668.19'



**TYPICAL SECTION - HOPEWELL ROAD**  
STA. 18+00.00 TO STA. 23+82.70 = 582.70'

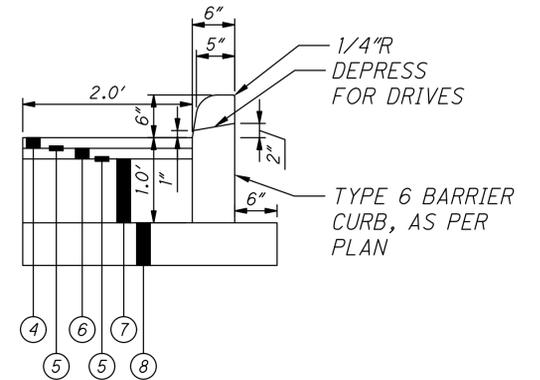


[A] WIDTH INCREASES FROM 8.67' AT STA. 12+00.00 TO 10.50' AT STA. 13+00.00

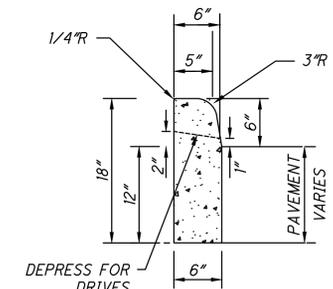
\* WALK TRANSITIONS FROM SLOPING AWAY FROM TO ROAD TO SLOPING TOWARDS THE ROAD AT STA. 22+25.00

**LEGEND - TYPICAL SECTIONS**

- ① - ITEM 608 - 5" CONCRETE WALK, AS PER PLAN
- ② - ITEM 411 - 3" STABILIZED CRUSHED AGGREGATE
- ③ - ITEM 659 - SEEDING AND MULCHING, CLASS 1, AS PER PLAN
- ④ - ITEM 441 - 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (449), PG64-22
- ⑤ - ITEM 407 - NON-TRACKING TACK COAT (APPLIED @ 0.60 GAL/SY)
- ⑥ - ITEM 441 - 1.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (449)
- ⑦ - ITEM 301 - 9" ASPHALT CONCRETE BASE, PG64-22 (449) (2 4.5" LIFTS)
- ⑧ - ITEM 304 - 6" AGGREGATE BASE
- ⑨ - ITEM 609 - TYPE 6 BARRIER CURB, AS PER PLAN
- Ⓐ - EXISTING PAVEMENT



**EXHIBIT A**



**TYPE 6 BARRIER CURB, AS PER PLAN NOTES**

- CONCRETE WORK SHALL BE PERFORMED PER ODOT ITEM 609 AND 499.
- CURBING SHALL HAVE CONTRACTION JOINTS EVERY 10'.
- MINIMUM OF 6" OF ODOT 304 SHALL BE PLACED UNDER CURBING.
- CURBING SHALL BE BACKFILLED IMMEDIATELY AFTER FORMS ARE REMOVED OR AS SOON AS PRACTICAL WHEN SLIP FORMING PRIOR TO OTHER CONSTRUCTION OPERATIONS.
- PROVIDE BROOM FINISH AND EDGING TO ALL EXPOSED SURFACES.
- APPLY WHITE PIGMENTED CURING COMPOUND ON ALL SURFACES INCLUDING BACK IMMEDIATELY AFTER FINISHING SURFACES. ANY OTHER METHOD OR TYPE OF CURING COMPOUND MUST BE PREAPPROVED.
- CONCRETE SHALL BE ODOT QC-1P (CEMENT ONLY - NO POZZOLAN MATERIAL).
- 1" EXPANSION JOINTS SHALL BE PER ODOT 705.03, AASHTO M153, VINYL RUBBER MATERIAL MANUFACTURED BY RIGHT/POINTE, W.R. MEADOWS, OSCODA PLASTICS INC. OR EQUAL. EXPANSION JOINTS SHALL BE PLACED IN CURB EVERY 100' WHERE NO CATCH BASIN EXPANSION JOINT IS LOCATED WITHIN THAT STRETCH.

**REVISIONS:**

FILE NAME	GY001
DRAWN BY	IJW
CHECKED BY	TAN
PROJECT No.	HAMSYM2306
DATE	05-22-2025
SHEET NUMBER	3 OF 26

**ELEVATION DATUM**

ALL ELEVATIONS ARE BASED ON NAVD 88 (ODOT VRS GEOID 12B).

**GENERAL NOTES AND DETAILS**

ALL CONSTRUCTION METHODS, MATERIALS, AND SPECIFICATIONS SHALL COMPLY WITH THE SYMMES TOWNSHIP ENGINEERING STANDARDS AND SPECIFICATIONS OR OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION STANDARDS AND SPECIFICATIONS, WHICHEVER IS MORE RESTRICTIVE AS DETERMINED BY THE TOWNSHIP.

**MODIFICATIONS**

ANY MODIFICATIONS TO THE SPECIFICATIONS OR CHANGES TO THE WORK AS SHOWN ON THE DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE TOWNSHIP.

**FUNDING**

DUE TO FUNDING, THE OWNER RESERVES THE RIGHT TO INCREASE, DECREASE, OR OMIT ANY ITEMS LISTED IN THE BID SCHEDULE.

NO FINAL UNIT PRICE ADJUSTMENTS PER ODOT 104.02 WILL BE MADE AT CONTRACT FINALIZATION.

**CONTRACT WORK PERFORMED BY THE TOWNSHIP**

IF THE CONTRACTOR REFUSES OR FAILS TO PERFORM WORK OF ANY IMMEDIATE NATURE SUCH AS THE PLACEMENT OF BARRICADES, REPLACEMENT OF SIGNS, OR OTHER DEVICES, REQUIRED BY THIS CONTRACT IN A REASONABLE TIME, THE TOWNSHIP WILL PERFORM THE NECESSARY WORK. THE CONTRACTOR SHALL REIMBURSE THE TOWNSHIP AT THE RATE OF 2.5 TIMES THE ACTUAL COST OF LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO PERFORM SUCH WORK. THE TOWNSHIP SHALL NOTIFY OR ATTEMPT TO NOTIFY THE CONTRACTOR OF THE NECESSITY TO PERFORM SUCH WORK. THE TOWNSHIP SHALL BE REIMBURSED BY A DEDUCTION FROM THE CONTRACTOR'S NEXT PAYMENT UNDER THE CONTRACT. REASONABLE TIME FOR ALL STREETS INVOLVED ON THIS CONTRACT IS 1 HOUR FROM THE TIME OF NOTIFICATION BY THE TOWNSHIP.

**RECORD DRAWINGS**

THE CONTRACTOR SHALL PROVIDE 2 COMPLETE SETS OF RECORD DRAWINGS TO THE TOWNSHIP WITHIN 30 DAYS OF PROJECT COMPLETION. THESE DRAWINGS SHALL SHOW ALL CHANGES TO THE ORIGINAL DRAWINGS, ALL MANHOLE AND CATCH BASIN LOCATIONS AND INVERTS, ALL LATERAL LOCATIONS AND DEPTHS, ALL LOCATIONS AND DEPTHS OF EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION, AND ALL OTHER PERTINENT DATA TO THE IMPROVEMENTS. PAYMENT FOR THIS ITEM SHALL BE INCIDENTAL TO THE OTHER ITEMS PAID FOR IN THIS PROJECT.

**MISCELLANEOUS**

COMPENSATION FOR THE WORK AS SHOWN ON THE PLANS SHALL BE AT THE UNIT PRICES INCLUDED ON THE BID PROPOSAL. NO SEPARATE PAYMENT WILL BE MADE FOR TASKS (NOT ALL INCLUSIVE) INCLUDING ITEMS SUCH AS MOBILIZATION, RECORD DRAWINGS AND CONNECTIONS TO EXISTING FACILITIES.

**SAFETY**

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK.

**UNDERGROUND UTILITIES**

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.64 ORC. EXISTING UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATION ACCORDING TO THE BEST AVAILABLE DATA. THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING THEM IN THE FIELD PRIOR TO CONSTRUCTION AND WILL BE RESPONSIBLE FOR ANY DAMAGE DONE TO THEM. CONTRACTOR TO CONTACT OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764) 48 HOURS PRIOR TO CONSTRUCTION.

NON-MEMBERS MUST BE CALLED DIRECTLY.

**UTILITY OWNERSHIP**

**SANITARY SEWER**  
MSD OF GREATER CINCINNATI  
1600 GEST STREET  
CINCINNATI, OHIO 45204  
PH: 513-557-7188  
ATTN: ROBERT FRANKLIN

**STREETS AND STORM SEWER**  
HAMILTON COUNTY ENGINEER  
223 W. GALBRAITH ROAD  
CINCINNATI OH, 45215  
PH: 513-946-8430  
ATTN: ERIC BECK

**WATER**  
GREATER CINCINNATI WATER WORKS  
4747 SPRING GROVE AVENUE  
CINCINNATI OH, 45232  
PH: 513-591-6533  
ATTN: EARL BRATFISH

**GAS**  
DUKE ENERGY  
139 EAST FOURTH STREET  
CINCINNATI, OHIO 45202  
PH: 513-906-0130  
ATTN: BRIAN HOLLMANN

**UTILITY STATEMENT**

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. CHOICE ONE ENGINEERING CORPORATION MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. FURTHER, CHOICE ONE ENGINEERING CORPORATION DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH CHOICE ONE ENGINEERING CORPORATION DID LOCATE AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. CHOICE ONE ENGINEERING CORPORATION HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

**UTILITY INTERFERENCE**

IF, DURING CONSTRUCTION, INTERFERENCE ARISES WITH EXISTING UTILITIES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE UTILITY COMPANY INVOLVED. ANY AND ALL WORK REQUIRED FOR PUBLIC OR PRIVATE UTILITIES WILL BE DONE BY AND AT THE EXPENSE OF THEIR RESPECTIVE OWNERS, UNLESS OTHERWISE NOTED ON THESE PLANS. THE CONTRACTOR SHALL NOTIFY, AT LEAST 7 DAYS BEFORE BREAKING GROUND, ALL PUBLIC SERVICE COMPANIES HAVING WIRES, POLES, PIPES, CONDUITS, MANHOLES, OR OTHER STRUCTURES THAT MAY BE AFFECTED BY THIS OPERATION, INCLUDING ALL STRUCTURES WHICH ARE AFFECTED AND NOT SHOWN ON THESE PLANS. THERE WILL BE NO DELAYS ALLOWED FOR UTILITY INTERFERENCES.

LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL UTILITIES, AND STRUCTURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE METHOD OF SUPPORT OR PROTECTION MUST BE APPROVED BY THE APPROPRIATE UTILITY COMPANY, AND IF FACILITY IS DAMAGED BY THE CONTRACTOR, ALL REPAIRS SHALL BE MADE BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR IS HEREBY ADVISED THAT ALL UTILITY COMPANIES AFFECTED BY THIS PROJECT MAY BE WORKING CONCURRENTLY WITHIN THE PROJECT LIMITS. NO ADDITIONAL COMPENSATION WILL BE MADE TO THE CONTRACTOR FOR COORDINATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE UTILITY COMPANIES.

**DEWATERING, COFFERDAMS, AND BY-PASS PUMPING**

ANY DEWATERING, COFFERDAMS, OR PUMPING NECESSARY FOR THE CONSTRUCTION OF ANY ITEMS SHALL BE INCIDENTAL TO THOSE PARTICULAR CONSTRUCTION ITEMS. NO ADDITIONAL PAYMENT WILL BE ALLOWED.

**ELECTRIC**  
DUKE ENERGY  
2010 DANA AVENUE  
ROOM EF 324  
CINCINNATI, OH 45207  
PH: 513-458-3856  
ATTN: AARON WRIGHT

**COMMUNICATIONS**  
CHARTER COMM. (SPECTRUM)  
11252 CORNELL PARK DRIVE  
CINCINNATI, OH 45242  
PH: 513-386-5499  
ATTN: KENT RIEGER

**COMMUNICATIONS**  
ALTA FIBER (CINCINNATI BELL)  
221 E. 4TH STREET  
BUILDING 121-900  
CINCINNATI, OH 45202  
PH: 513-565-7187  
ATTN: BRECK COWWAN

OHIO UTILITIES PROTECTION SERVICES 2 WORKING DAYS BEFORE YOU DIG CALL TOLL FREE (1-800-362-2784)

**REVIEW OF DRAINAGE FACILITIES**

BEFORE ANY WORK IS STARTED ON THE PROJECT AND BEFORE FINAL ACCEPTANCE BY THE TOWNSHIP, REPRESENTATIVES OF THE TOWNSHIP AND THE CONTRACTOR SHALL MAKE AN INSPECTION OF ALL EXISTING SEWER THAT MAY BE AFFECTED BY THE WORK AND ARE TO REMAIN IN SERVICE. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE TOWNSHIP.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE TOWNSHIP.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE-MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE TOWNSHIP.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

**EXISTING DRAINAGE FACILITIES**

ANY DRAINAGE CONDUIT CURRENTLY CONNECTED TO THE EXISTING STORM SEWER SHALL BE CONNECTED TO THE PROPOSED STORM SEWER. ANY DRAINAGE CONDUIT DAMAGED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR TO A CONDITION EQUAL TO OR BETTER THAN ITS ORIGINAL CONDITION. ALL CONDUIT REMOVED, REPLACED AND/OR CONNECTED TO THE STORM SEWER SHALL BE NOTED ON THE RECORD DRAWINGS AND SHALL BE INSPECTED BY THE TOWNSHIP BEFORE IT IS COVERED.

A CONCRETE COLLAR SHALL BE PROVIDED WHERE PROPOSED STORM SEWER PIPE IS CONNECTED TO AN EXISTING PIPE. THE COST SHALL BE INCLUDED IN THE BID PRICE FOR THE NEW CONDUIT.

ALL FIELD OR STORM DRAINS WHICH ARE ENCOUNTERED DURING CONSTRUCTION SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS OR PLUGGED AS APPROVED AND DIRECTED BY THE TOWNSHIP. THE TOWNSHIP WILL ASSIST IN ANY NECESSARY INVESTIGATION OR DYE TESTING PRIOR TO APPROVING THE PLUGGING OF A FIELD OR STORM CONDUIT. COST OF THE ITEMS ABOVE SHALL BE INCLUDED IN THE COST OF ITEM 611 CONDUIT, TYPE B, 707.45, STORM REPAIR.

THE LOCATION, TYPE, SIZE, AND GRADE OF THE NEW CONDUIT REQUIRED TO REPLACE OR EXTEND THE EXISTING DRAIN WILL BE DETERMINED BY THE TOWNSHIP OR TOWNSHIP'S REPRESENTATIVE DURING CONSTRUCTION, AND PAYMENT SHALL BE MADE ON FINAL MEASUREMENTS AND INCLUDE ALL MATERIALS NECESSARY SUCH AS GRANULAR BEDDING, PROPER FITTINGS AND CONNECTIONS, AND PIPE.

THE FOLLOWING CONTINGENT ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE PLANS FOR THE WORK NOTED ABOVE:

- ITEM 611 4" CONDUIT, TYPE B, 707.45, STORM REPAIR 25 FEET
- ITEM 611 6" CONDUIT, TYPE B, 707.45, STORM REPAIR 25 FEET
- ITEM 611 8" CONDUIT, TYPE B, 707.45, STORM REPAIR 25 FEET

**CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL**

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MAD USING A W-BEAM, BEAM SPLICE AS SHOWN IN AASHTO M 180-12, EXCEPT THE BEAMS WASHERS ARE NOT TO BE USED. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

**CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES**

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION, OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE TOWNSHIP SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT ANY EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE TOWNSHIP SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

**SUBCONTRACTOR SUPERVISION**

THE CONTRACTOR IS REQUIRED TO HAVE A PROJECT SUPERVISOR ON-SITE TO SUPERVISE THE SUBCONTRACTOR FOR QUALITY CONTROL PURPOSES AND TO PROVIDE ANY NECESSARY ASSISTANCE TO THE SUBCONTRACTOR TO ENSURE QUALITY WORK.

COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF RELATED PAY ITEMS OF THIS PROJECT.

**MUD**

THE TRACKING OR SPILLING OF MUD, DIRT, OR DEBRIS UPON TOWNSHIP STREETS IS PROHIBITED, AND ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR.

**PROPERTY POINTS AND SURVEY MONUMENTS**

CARE SHALL BE TAKEN BY THE CONTRACTOR TO SAFEGUARD ANY PROPERTY POINTS OR OTHER SURVEY REFERENCE MARKS ENCOUNTERED DURING CONSTRUCTION OF THIS PROJECT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESET ANY PROPERTY POINT OR SURVEY MONUMENT WHICH IS DISTURBED AS A RESULT OF CONSTRUCTION OF THIS PROJECT. THE PROPERTY POINTS AND SURVEY MONUMENTS SHALL BE RESET UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL SURVEYOR.

PAYMENT FOR THIS ITEM SHALL BE INCIDENTAL TO THE OTHER ITEMS PAID FOR IN THIS PROJECT.

**NONRUBBER TIRE VEHICLES**

NO NONRUBBER TIRE VEHICLES SHALL BE MOVED ON TOWNSHIP STREETS. EXCEPTIONS MAY BE GRANTED BY THE TOWNSHIP WHERE SHORT DISTANCES AND SPECIAL CIRCUMSTANCES ARE INVOLVED. GRANTING OF EXCEPTIONS MUST BE IN WRITING AND ANY RESULTING DAMAGE MUST BE REPAIRED TO THE SATISFACTION OF THE TOWNSHIP. THE CONTRACTOR SHALL USE EXTREME CARE WHEN OPERATING NONRUBBER TIRE VEHICLES ON STREETS OR DRIVEWAYS TO AVOID MARKING OR DAMAGING THE PAVEMENT. PROTECTION OF THE PAVEMENT FROM DAMAGE RESULTING FROM THE TRACKS OF NONRUBBER TIRE VEHICLES UTILIZED IN TRENCH EXCAVATION SHALL BE REQUIRED. A WOOD PLANK SYSTEM, USED TIRES, RUBBER MATS, OR OTHER MEANS AS APPROVED BY THE TOWNSHIP'S REPRESENTATIVE SHALL BE USED TO PROTECT THE PAVEMENT. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS ITEMS OF THE CONTRACT.

**CONSTRUCTION NOISE**

IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, ANY POWER-OPERATED CONSTRUCTION-TYPE DEVICES SHALL NOT BE OPERATED BETWEEN THE HOURS SPECIFIED IN THE TOWNSHIP NOISE ORDINANCE. IF THERE IS NO NOISE ORDINANCE IN PLACE, POWER-OPERATED CONSTRUCTION-TYPE DEVICES SHALL NOT BE OPERATED BETWEEN THE HOURS OF 7:00 PM TO 7:00AM.



SIDNEY, OHIO 937.497.0200  
LOVELAND, OHIO 513.239.8554

WWW.CHOICEONEENGINEERING.COM

HOPEWELL ROAD SIDEWALK, PHASE 2  
SYMMES TOWNSHIP  
GENERAL NOTES

REVISIONS:

FILE NAME  
GN001

DRAWN BY  
LJW

CHECKED BY  
TAN

PROJECT No.  
HAMSYM2306

DATE  
05-22-2025

SHEET NUMBER

4 OF 26

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**HAUL ROADS**

WHEN PICKING A DUMP SITE, CONTRACTOR IS TO TAKE INTO CONSIDERATION THE HAUL ROAD ROUTE AND ANY NECESSARY ROADWAY REPAIR CAUSED BY HAULING TO THE DUMP SITE.

PRIOR TO HAULING EQUIPMENT OR MATERIALS, THE CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO THE TOWNSHIP OF THE SPECIFIC ROADS OR STREETS ON THE HAUL ROUTE. IF THE HAUL ROUTE INCLUDES ROADS AND STREETS THAT ARE NOT UNDER THE JURISDICTION AND CONTROL OF THE TOWNSHIP OR OF THE STATE, THE CONTRACTOR MUST USE LOCAL ROADS AND STREETS THAT ARE NOT RESTRICTED BY LOCAL AUTHORITIES. IF IT IS DETERMINED BY THE TOWNSHIP THAT THE HAUL ROADS USED TO HAUL EQUIPMENT AND MATERIALS TO THE DUMP SITE WERE DAMAGED FROM THIS OPERATION, THE TOWNSHIP WILL ORDER THE CONTRACTOR TO PERFORM IMMEDIATE AND PRACTICAL REPAIRS TO ENSURE REASONABLY NORMAL TRAVELING CONDITIONS AND BRING PAVEMENT CONDITIONS BACK TO CONDITIONS EQUAL OR BETTER THAN PRE-OPERATION CONDITIONS AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL TAKE ALL THIS INTO CONSIDERATION WHEN PICKING A DUMP SITE.

THE CONTRACTOR SHALL NOT FILE A CLAIM FOR DELAYS OR OTHER IMPACTS TO THE WORK CAUSED BY DISPUTE WITH THE LOCAL AUTHORITIES REGARDING THE USE OF LOCAL ROADS OR STREETS AS HAUL ROADS. THE CONTRACTOR SHALL SAVE THE TOWNSHIP AND THE STATE HARMLESS FOR ANY CLOSURES OR HAULING RESTRICTION OUTSIDE THE PROJECT LIMITS BEYOND THE CONTROL OF THE TOWNSHIP OR ODOT.

**GRAFFITI AND VANDALISM**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF ANY CONCRETE WORK OR OTHER PAY ITEM UNDER THIS CONTRACT WHICH IS DEEMED UNACCEPTABLE BY THE TOWNSHIP DUE TO GRAFFITI OR VANDALISM DAMAGE.

**CONTROL OF SPILLS**

BEST CONSTRUCTION PRACTICES ARE TO BE IMPLEMENTED TO MINIMIZE WATER QUALITY IMPACTS. IDLE EQUIPMENT, PETROCHEMICALS, AND TOXIC/HAZARDOUS MATERIALS SHALL NOT BE STORED NEAR DRAINAGE WAYS, DITCHES, OR STREAMS. REFUELING SHALL NOT BE UNDERTAKEN NEAR DRAINAGE WAYS, DITCHES, OR STREAMS. A SPILL CONTAINMENT KIT IS TO BE MAINTAINED ONSITE THROUGHOUT CONSTRUCTION ACTIVITIES. SPILLS OF FUELS, OILS, CHEMICALS, OR OTHER MATERIALS WHICH COULD POSE A THREAT TO GROUNDWATER SHALL BE CLEANED UP IMMEDIATELY. IF THE SPILL IS A REPORTABLE AMOUNT, THE LOCAL FIRE DEPARTMENT IS TO BE CONTACTED.

**WORK LIMITS**

ALL WORK SHALL BE WITHIN EXISTING OR PROPOSED RIGHT-OF-WAY AND/OR CONSTRUCTION LIMITS UNLESS OTHERWISE INSTRUCTED BY THE TOWNSHIP.

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION AND OPERATION OF ALL TEMPORARY TRAFFIC CONTROL AND TEMPORARY TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS SHALL BE PROVIDED BY THE CONTRACTOR WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

**MINIMIZING OF CONSTRUCTION DAMAGE TO TREES**

BEFORE CONSTRUCTION

1. DESIGNATE STORAGE AREA FOR HEAVY EQUIPMENT AND MATERIALS WELL AWAY FROM TREE ROOTS.
2. KEEP THE SOIL AT THE PRESENT GRADE AS MUCH AS POSSIBLE.
3. SELECT A TRAVEL ROUTE FOR ALL CONSTRUCTION VEHICLES THAT WILL CAUSE THE LEAST AMOUNT OF SOIL COMPACTION.

DURING CONSTRUCTION

1. DO NOT PILE SOIL, MATERIALS, OR EQUIPMENT ON THE ROOTS.
2. DO NOT PARK CARS, TRUCKS, OR EQUIPMENT ON THE ROOTS.
3. DO NOT GRADE SOIL AWAY FROM THE ROOTS.
4. DO NOT ALLOW THE ROOTS TO DRY AFTER THEY ARE CUT. PLACE DAMP BURLAP OVER THE EXPOSED ROOT ENDS TO MINIMIZE DRYING.
5. AVOID SOIL COMPACTION. DO NOT DRIVE EQUIPMENT OVER THE ROOTS.

**ASPHALT**

ALL ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS SHALL APPLY TO THIS PROJECT, EXCLUDING THE BINDER PRICE ADJUSTMENT PER ODOT 401.20. ALL ASPHALT DELIVERED SHALL BE ACCOMPANIED WITH A LOAD TICKET AS PER ITEM 401.21.

**TESTING AND CERTIFICATION**

PROVIDE TESTING OF AND CERTIFICATION THAT MATERIAL SUPPLIED FOR THIS PROJECT MEETS THE PROJECT SPECIFICATIONS, IF REQUIRED.

POTENTIAL ITEMS FOR TESTING CONSIST OF TRENCH BACKFILL, EMBANKMENT, AND CONCRETE, WHICH MAY BE PERFORMED BY THE TOWNSHIP IF THEY SUSPECT DEFECTIVE WORK OR MATERIALS.

PAYMENT FOR CERTIFICATION OF WORK SHALL BE INCIDENTAL TO THE VARIOUS ITEMS IT IS RELATED TO AND SHALL INCLUDE ALL COST RELATED TO PROVIDING THE CERTIFICATION. COST OF ANY TESTING BY A TESTING LAB CONTRACTED BY THE TOWNSHIP SHALL BE BORNE BY THE TOWNSHIP, UNLESS THE TEST DOES NOT MEET PROJECT SPECIFICATIONS OR WORK IS FOUND TO BE DEFECTIVE, AT WHICH POINT, THE CONTRACTOR SHALL PAY THE EXPENSES FOR TESTING.

**ESTIMATED AND CONTINGENT QUANTITIES**

THESE PLANS INCLUDE ESTIMATED AND CONTINGENCY QUANTITIES THAT MAY OR MAY NOT BE USED. ANY UNUSED MATERIAL PURCHASED BY THE CONTRACTOR WILL NOT BE PURCHASED OR REIMBURSED BY THE TOWNSHIP. THE TOWNSHIP WILL NOT APPROVE ANY WORK DELAYS BECAUSE OF THE LACK OF MATERIALS AT THE SITE. ANY RESTOCKING FEES THAT MAY BE CHARGED WILL ALSO BE THE RESPONSIBILITY OF THE CONTRACTOR.

**CAD FILE DISCLAIMER**

THE CAD FILE ASSOCIATED WITH THESE CONSTRUCTION PLANS IS A NON-CERTIFIED DOCUMENT. ANY USE OF THE INFORMATION OBTAINED OR DERIVED FROM THE ASSOCIATED CAD FILE WILL BE AT THE RECEIVING PARTY/USER'S RISK. CHOICE ONE ENGINEERING CORP. OFFERS NO WARRANTY AS TO THE ACCURACY OF THE INFORMATION IN THE CAD FILE OR THAT REVISIONS HAVE BEEN ISSUED AFTER THE CAD DRAWING WAS RELEASED. RECEIVING PARTIES/USERS SHALL HOLD HARMLESS TO THE MAXIMUM EXTENT ALLOWED BY LAW CHOICE ONE ENGINEERING CORP. FROM ANY USE OF THE CAD FILE BY THE RECEIVING PARTY/USER. IN ALL CIRCUMSTANCES, AND AT ALL TIMES, THE PUBLISHED PAPER AND/OR PDF DRAWINGS FOR THE PROJECT SHALL SUPERSEDE THE CAD FILES. IN THE CASE OF AN INCONSISTENCY BETWEEN THE PUBLISHED PAPER/PDF DRAWINGS AND THE ASSOCIATED CAD FILE, THE PUBLISHED PAPER/PDF DRAWINGS SHALL GOVERN THE PROJECT AND ALL WORK.

**CONCRETE FIBERS**

ALL CURB, CURB AND GUTTER, DRIVEWAYS, AND CURB RAMPS SHALL HAVE 3 LBS PER CUBIC YARD OF EITHER EUCLID CHEMICAL TUFSTRAND SF, FORTA FERRO SYNTHETIC MACROFIBERS OR APPROVED EQUIVALENT MEETING ASTM C 1116 TYPE 3, MINIMUM 2" LENGTH, ASPECT RATIO 50 TO 90. CONTRACTOR SHALL CONTACT THE FIBER MANUFACTURER'S SUPPLIER 48 HOURS PRIOR TO ORDERING THE FIRST BATCH OF CONCRETE FOR APPROPRIATE MIXING AND FINISHING PROCEDURES.

**FUTURE MAINTENANCE OF PROPOSED ITEMS**

ALL PROPOSED DRAINAGE STRUCTURES AND CONVEYANCES SHOWN ON THESE PLANS ARE NOT ACCEPTED BY THE BOARD OF COUNTY COMMISSIONERS OF HAMILTON COUNTY, AND THE COUNTY OF HAMILTON IS NOT RESPONSIBLE TO MAINTAIN, REPAIR OR REPLACE ANY PROPOSED DRAINAGE STRUCTURES AND CONVEYANCES SHOWN ON THESE PLANS. EXCEPT HEREIN MODIFIED, ANY PROPOSED DRAINAGE STRUCTURE AND CONVEYANCES CROSSING UNDERNEATH THE COUNTY ROAD SHALL BE THE RESPONSIBILITY OF THE BOARD OF COUNTY COMMISSIONERS OF HAMILTON COUNTY.

ALL PROPOSED SIDEWALK AND CURB RAMPS SHOWN ON THESE PLANS ARE NOT ACCEPTED BY THE BOARD OF COUNTY COMMISSIONERS OF HAMILTON COUNTY, AND THE COUNTY OF HAMILTON IS NOT RESPONSIBLE TO MAINTAIN, REPAIR OR REPLACE ANY PROPOSED SIDEWALK SHOWN ON THESE PLANS.

ALL PROPOSED CURB AND CURB INLETS SHOWN ON THESE PLANS ARE NOT ACCEPTED BY THE BOARD OF COUNTY COMMISSIONERS OF HAMILTON COUNTY, AND THE COUNTY OF HAMILTON IS NOT RESPONSIBLE TO MAINTAIN, REPAIR OR REPLACE ANY PROPOSED CURB AND CURB INLETS SHOWN ON THESE PLANS.

**ITEM 201 CLEARING AND GRUBBING, AS PER PLAN**

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 201 CLEARING AND GRUBBING, EXCEPT AS HEREIN MODIFIED.

THIS WORK SHALL CONSIST OF REMOVING AND TRIMMING TREES, REMOVING STUMPS, TRIMMING AND/OR REMOVING BUSHES, REMOVING LANDSCAPE TIMBERS, ETC., AS NOTED ON THE PLANS. WORK SHALL BE COORDINATED WITH THE INDIVIDUAL PROPERTY OWNERS TO ENHANCE MAXIMUM POSSIBLE SATISFACTION.

ALL TREES REMOVED SHALL BE CUT INTO 2' LENGTHS AND SPLIT IF NECESSARY TO ALLOW THE PIECES TO BE MOVED BY HAND. PIECES SHALL BE STACKED BEYOND THE RIGHT-OF-WAY LINE AND LEFT FOR THE RESPECTIVE PROPERTY OWNERS. IF THE PROPERTY OWNER REFUSES TO ACCEPT THE WOOD, THE CONTRACTOR SHALL DISPOSE OF THE WOOD AS DIRECTED BY THE TOWNSHIP.

PAYMENT FOR ITEM 201 CLEARING AND GRUBBING, AS PER PLAN, FOR ALL OPERATIONS DESCRIBED ABOVE, SHALL BE AT THE CONTRACT LUMP SUM BID PRICE EXCEPT FOR ITEMS PAID FOR AS EACH, AND SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

**ITEM 202 REMOVED, AS PER PLAN**

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 202 REMOVAL OF STRUCTURES AND OBSTRUCTIONS, EXCEPT AS HEREIN MODIFIED.

ITEM 202 REMOVED, AS PER PLAN CONSISTS OF ALL ITEMS THAT DO NOT HAVE AN INDIVIDUAL REMOVAL BID ITEM, AS NECESSARY FOR THE CONSTRUCTION OF THE PROJECT, INCLUDING SAWCUTTING PAVEMENT.

THE FOLLOWING ODOT 202 ITEMS (PIPE REMOVED, MANHOLE REMOVED, AND CATCH BASIN AND INLET REMOVED) SHALL REFER TO ANY PIPE OR STRUCTURE THAT IS TO BE REMOVED OUTSIDE THE LIMITS OF ANY PROPOSED CONDUIT AND/OR STRUCTURE TRENCH AND SHALL BE PAID FOR UNDER EACH OF THOSE INDIVIDUAL REMOVED LINE ITEMS. ALL EXISTING PIPE, MANHOLE, CATCH BASIN, AND INLET LOCATED WITHIN THE TRENCH LIMITS OF ANY PROPOSED CONDUIT AND/OR STRUCTURE SHALL BE REMOVED FOR THE PROPER INSTALLATION OF THAT ITEM AND ANY ASSOCIATED REMOVAL COSTS SHALL BE INCLUDED IN THE COST OF THAT PROPOSED CONDUIT OR STRUCTURE ITEM. THE TRENCH LIMITS SHALL BE BASED ON THE TRENCH DETAIL SHOWN IN THE CONSTRUCTION PLANS.

ANY ITEM THAT IS REMOVED UNDER OR WITHIN 5' OF PROPOSED CURB, PAVEMENT, SIDEWALK, OR DRIVEWAY SHALL BE BACKFILLED AND COMPACTED USING ONLY ODOT ITEM 703.11 STRUCTURAL BACKFILL TYPE 1 OR 2 STRUCTURAL MATERIAL.

THE CONTRACTOR SHALL SAWCUT ALL EXISTING PAVEMENT, SIDEWALK AND CURB AGAINST WHICH ALL IMPROVEMENTS ARE PROPOSED. PAVEMENT, WALK, AND CURB SHALL BE SAWCUT IN NEAT, STRAIGHT LINES. SAWCUT PAVEMENT JOINTS SHALL BE INCLUDED IN THE PAYMENT OF THIS ITEM. MORE THAN ONE SAWCUT MAY BE NECESSARY TO ENSURE A CLEAN CUT ON THE VERTICAL FACE OF SAWCUT JOINTS PRIOR TO PAVING AS PER 401.14. AFTER THE ASPHALT WORK IS COMPLETED, THE TRANSVERSE JOINTS SHALL BE SEALED WITH LIQUID ASPHALT, PER 401.22, 409.02 AND 409.03.

ANY PRIVATE PROPERTY WITHIN THE ROAD RIGHT-OF-WAY OR PROJECT CONSTRUCTION LIMITS SHALL BE REMOVED CAREFULLY AND STORED FOR THE PROPERTY OWNER AT A PLACE DESIGNATED BY THE PROPERTY OWNER ON THAT PARTICULAR PROPERTY. ANY SALVAGED PUBLIC ITEMS SHALL REMAIN TOWNSHIP PROPERTY AND SHALL BE CAREFULLY REMOVED BY THE CONTRACTOR AND STORED AT A DESIGNATED LOCATION ON THE PROJECT SITE FOR TOWNSHIP PICKUP.

PAYMENT FOR ITEM 202 REMOVED, AS PER PLAN, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT LUMP SUM BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

**ITEM 606 ANCHOR ASSEMBLY, MGS TYPE E**

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR THE TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH REBOUNDABLE RETROREFLECTIVE SHEETING, PER CMS 730.191.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OF TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT, AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

**ITEM 608 CURB RAMP, AS PER PLAN**

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 608 WALKS, CURB RAMPS, AND STEPS, EXCEPT AS HEREIN MODIFIED.

TRUNCATED DOME SPECIFICATIONS: INSTALL DETECTABLE WARNINGS (TRUNCATED DOMES) FOR A DISTANCE OF 24" FROM THE BACK OF CURB FOR THE ENTIRE WIDTH OF THE RAMP OPENING WHERE IT IS FLUSH WITH THE PAVEMENT.

THE PANELS SHALL BE GLASS POLYMER CERAMIC CEMENT PANELS MOLDED IN THE SQUARE PATTERN. COLOR OF THE PANEL SHALL BE APPROVED BY THE TOWNSHIP PRIOR TO ORDERING.

PAYMENT FOR ITEM 608 CURB RAMP AS PER PLAN, FOR ALL OPERATIONS DESCRIBED ABOVE, SHALL BE AT THE CONTRACT SQUARE FOOT BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK PER RAMP.

**ITEM 611 CONDUITS/STRUCTURES AND RELATED WORK**

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 611, PIPE CULVERTS, SEWERS, DRAINS, AND DRAINAGE STRUCTURES, EXCEPT AS HEREIN MODIFIED.

THE INSTALLATION OF ALL STORM SEWER, SANITARY SEWER, AND ALL CORRESPONDING STRUCTURES SHALL BE PER MANUFACTURER'S RECOMMENDATIONS OR AS NOTED ON THE PLANS. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN A HIGH STANDARD OF WORK, AND ENSURE THAT ALL ITEMS ARE FULLY AND PROPERLY FUNCTIONAL TO A QUALITY ACCEPTABLE TO THE OWNER.

ALL PIPE CULVERTS, CONDUITS, SEWERS, DRAINS, AND DRAINAGE STRUCTURES SHALL MEET THE MATERIAL REQUIREMENTS OF THIS ITEM. THE FOLLOWING ITEMS WILL NOT BE REQUIRED UNLESS OTHERWISE NOTED: 1) INSTALLATION PLAN, 2) CONSTRUCTION INSPECTION FORMS, 3) PERFORMANCE INSPECTIONS AND REPORTS, 4) CONDUIT AND DRAINAGE STRUCTURE EVALUATIONS.

THE CONTRACTOR SHALL ENSURE THE CONDUIT BEDDING AND BACKFILL COMPACTION DENSITY MEETS ASTM D698 (98% STANDARD PROCTOR). TESTING MAY BE REQUIRED IF DEEMED NECESSARY BY THE OWNER OR THE OWNER'S REPRESENTATIVE.

EXCAVATION, BEDDING AND BACKFILL SHALL MATCH THE TRENCH DETAIL SHOWN IN THE PLANS AND BE PAID FOR UNDER THE CORRESPONDING CONDUIT UNIT PRICE.



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HOPEWELL ROAD SIDEWALK, PHASE 2  
SYMMES TOWNSHIP  
GENERAL NOTES

REVISIONS:

FILE NAME

G0001

DRAWN BY

IJW

CHECKED BY

TAN

PROJECT No.

HAMSYM2306

DATE

05-22-2025

SHEET NUMBER

5 OF 26

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**ITEM 614 MAINTAINING TRAFFIC**

IT IS THE INTENTION TO PERFORM THE REQUIRED WORK WITHIN THESE PLANS WITH THE LEAST INCONVENIENCE TO, AND THE MAXIMUM SAFETY OF, THE CONTRACTOR, LOCAL MERCHANTS, PEDESTRIAN TRAFFIC, AND THE TRAVELING PUBLIC.

REQUIREMENTS FOR MAINTAINING TRAFFIC AS SPECIFIED IN THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (CURRENT EDITION, LATEST REVISION), PERTINENT PROVISIONS OF THE "OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS" (INCLUDING SUPPLEMENTAL SPECIFICATIONS) AND APPLICABLE STANDARD CONSTRUCTION DRAWINGS SHALL APPLY TO THIS PROJECT IN ADDITION TO THE FOLLOWING NOTES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SAFE AND EFFECTIVE VEHICULAR TRAFFIC CONTROL 24 HOURS A DAY FOR THE DURATION OF THIS PROJECT. THIS WILL INCLUDE PROVIDING, PLACING, MAINTAINING, AND SUBSEQUENTLY REMOVING ALL NECESSARY TRAFFIC CONTROL MEASURES FOR ALL PROPOSED CONSTRUCTION OPERATIONS.

BEFORE THE WORK BEGINS, THE CONTRACTOR SHALL SUBMIT TO THE TOWNSHIP THE NAME(S) AND TELEPHONE NUMBER(S) OF A PERSON OR PERSONS WHO CAN BE CONTACTED TWENTY-FOUR (24) HOURS A DAY BY THE TOWNSHIP, OR ANY OTHER INTERESTED POLICE AGENCY.

THIS PERSON OR PERSONS SHALL BE RESPONSIBLE FOR REPAIRING AND/OR REPLACING ALL TRAFFIC CONTROL DEVICES NEEDED TO MAINTAIN THE SAFETY OF THE TRAVELED PAVEMENT FOR THE DURATION OF THIS PROJECT. THIS PERSON SHALL HAVE AVAILABLE ALL MATERIALS, EQUIPMENT, AND INCIDENTALS NECESSARY TO PERFORM THE REQUIRED REPAIRS WITHIN A REASONABLE PERIOD OF TIME AS PER C.M.S. 614.14.

THE CONTRACTOR SHALL ALSO SUBMIT A CONSTRUCTION SEQUENCING SCHEDULE PRIOR TO WORK BEGINNING FOR

APPROVAL BY THE TOWNSHIP. THE CONSTRUCTION SEQUENCING SCHEDULE SHALL TAKE INTO CONSIDERATION ALL ASPECTS OF THE PROJECT INCLUDING HOW LOCAL TRAFFIC TO THE BUSINESSES WILL BE MAINTAINED. THE CONSTRUCTION SEQUENCE WILL NEED TO BE APPROVED BY THE TOWNSHIP PRIOR TO ANY COMMENCEMENT OF WORK.

ACCESS FOR PROPERTY OWNERS AND BUSINESS TRAFFIC SHALL BE MAINTAINED IN A UNIFORM PATTERN THROUGHOUT THE ENTIRE LENGTH OF THE PROJECT AND SHALL NOT BE SUBJECTED TO CONSTANT LANE SHIFTS.

ACCESS TO AND FROM ALL LOCAL RESIDENTIAL AND BUSINESS DRIVES WITHIN THE LIMITS OF THIS PROJECT SHALL BE MAINTAINED AT ALL TIMES (24 HOURS A DAY) BY USING THE EXISTING PAVEMENT, TEMPORARY PAVEMENT, AND THE PROPOSED PAVEMENT UNLESS OTHERWISE DIRECTED BY THE ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SEQUENCE HIS WORK TO HELP MINIMIZE THE NEED FOR TEMPORARY AGGREGATE PAVEMENT. TEMPORARY AGGREGATE PAVEMENT CAN BE ASPHALT GRINDINGS OR OTHER AGGREGATE APPROVED BY THE TOWNSHIP. THE COST OF INSTALLATION, MATERIAL, AND REMOVAL OF THE TEMPORARY AGGREGATE PAVEMENT IS TO BE PART OF THE LUMP SUM BID FOR ITEM 614 MAINTAINING TRAFFIC.

WHERE MORE THAN ONE ACCESS TO A BUSINESS OR RESIDENCE EXISTS, ONLY ONE ACCESS NEEDS TO BE MAINTAINED AT A TIME DURING CONSTRUCTION. WHEN A BUSINESS OR RESIDENCE ONLY HAS ONE ACCESS DRIVE, ACCESS SHALL BE MAINTAINED AT ALL TIMES. IF THE PROJECT REQUIRES IMPROVEMENTS TO THIS ACCESS DRIVE, THE CONTRACTOR SHALL REPLACE HALF OF THE DRIVE AT ONE TIME TO ALLOW ACCESS AT ALL TIMES. THESE ACCESS OPTIONS ARE SUBJECT TO THE APPROVAL OF THE TOWNSHIP.

THE CONTRACTOR SHALL NOTIFY THE TOWNSHIP 21 DAYS PRIOR TO THE START OF ANY DETOUR OR LANE RESTRICTIONS. THE TOWNSHIP IS REQUIRED TO PROVIDE A 14 DAY NOTIFICATION PRIOR TO THE START OF DETOUR/LANE RESTRICTIONS TO ODOT, LOCAL SCHOOLS, AND EMERGENCY SERVICES. THIS DETOUR/LANE RESTRICTION COMMUNICATION MUST STATE THE DATE OF CLOSURE AND LENGTH OF CLOSURE.

ANY DAMAGE TO MAINTENANCE OF TRAFFIC EQUIPMENT SUCH AS SIGNS, BARRELS, ETC. SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

**ITEM 614 MAINTAINING TRAFFIC (CONTINUED)**

THE CONTRACTOR WILL BE REQUIRED TO PROVIDE, ERECT, MAINTAIN (IN PROPER POSITION, CLEAN AND LEGIBLE, AND IN GOOD WORKING CONDITION), AND SUBSEQUENTLY REMOVE ALL LIGHTS, SIGNS, CONES, BARRICADES, EXISTING PAVEMENT MARKINGS, AND ANY OTHER TRAFFIC CONTROL DEVICES NECESSARY FOR THE MAINTENANCE OF TRAFFIC.

THE CONTRACTOR SHALL ADJUST THE LOCATION AND/OR SPACING OF ALL TRAFFIC CONTROL CHANNELING DEVICES AS DICTATED BY THE PROGRESS OF THE REQUIRED WORK TO ALLOW CONSTRUCTION ACCESS TO WORK AREAS WHILE MAINTAINING SAFE AND EFFECTIVE TRAFFIC CONTROL DURING ALL CONSTRUCTION OPERATIONS. THE ORIGINAL LOCATION, PLACEMENT, SPACING AND SUBSEQUENT RELOCATION OR REMOVAL OF ALL TRAFFIC CONTROL DEVICES SHALL BE SUBJECT TO THE TOWNSHIP'S APPROVAL.

IT IS INTENDED THAT THE LOCAL TRAFFIC NOT BE SUBJECTED TO ANY LANE CLOSURES UNLESS ACTIVE WORK IS BEING PERFORMED IN OR IMMEDIATELY ADJACENT TO THE CLOSED LANE. THE ROADWAY SHALL NOT BE RESTRICTED TO ANY LANE CLOSURE DURING PERIODS OF INTERMITTENT OR IRREGULAR WORK, NOR CLOSED SOLELY FOR THE CONVENIENCE OF THE CONTRACTOR. THE TOWNSHIP SHALL MAKE THE FINAL DETERMINATION AS TO WHAT CONSTITUTES ACTIVE WORK AND WHETHER OR NOT THE LANE CLOSURE IS JUSTIFIED.

IF, IN THE OPINION OF THE TOWNSHIP, THE LANE CLOSURE IS NOT JUSTIFIED, THEY MAY ORDER ALL OR PART OF THE LANE CLOSURE REOPENED TO LOCAL TRAFFIC (UNTIL SUCH TIME THIS CONDITION IS CORRECTED.)

THE CONTRACTOR SHALL FURNISH AND INSTALL ADVANCE WARNING "ROAD WORK AHEAD" (W20-1) SIGNS AND "END ROAD WORK" (G20-2) SIGNS, PLACED AT EACH CROSSROAD IN THE PROJECT AREA, AS WELL AS OTHER NECESSARY MAINTENANCE OF TRAFFIC SIGNS.

THE CONTRACTOR SHALL NOTIFY THE TOWNSHIP OF ANY INTENDED CHANGES TO ANY EXISTING OR TEMPORARY TRAFFIC CONTROL DEVICES AND SHALL OBTAIN THE TOWNSHIP'S APPROVAL PRIOR TO MAKING THE CHANGES. THE CONTRACTOR SHALL ALSO NOTIFY THE TOWNSHIP AND LOCAL NEWSPAPER FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY INTENDED LANE CLOSURES.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

**ITEM 659 SEEDING AND MULCHING, CLASS 1, AS PER PLAN**

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 659, SEEDING AND MULCHING, EXCEPT AS HEREIN MODIFIED.

ALL AREAS DESIGNATED FOR SEEDING SHALL HAVE A MINIMUM OF 6" OF TOPSOIL OVER THE ENTIRE AREA. TESTING THE PH OF ANY EXISTING OR IMPORTED TOPSOIL PER ODOT 659.02 SHALL BE WAIVED. THE AREA SHALL BE HAND-RAKED AND DRESSED READY FOR SEEDING. NO STONE OVER 1" IN SIZE PERMITTED IN THE TOP 6".

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON PROJECT WORK LIMITS.

IT'S THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE THE REQUIRED GERMINATION RATES AND ENSURE THE GRASS IS ESTABLISHED TO THE SATISFACTION OF THE TOWNSHIP WHICH MAY REQUIRE WATERING, REGRADING/ADDING TOPSOIL AND RESEEDING.

ANY AREAS THAT HAVE ERODED OR WHERE NEW GRASS DID NOT GERMINATE SHALL BE ADDRESSED BY THE CONTRACTOR UNTIL THE AREAS ARE STABILIZED, SHAPED, AND DRAINED, AS INDICATED IN THE PLANS.

ANY DISTURBED AREA, OUTSIDE OF THE PROJECT WORK LIMITS, CAUSED BY THE CONTRACTOR'S WORK, SHALL BE RESTORED TO THE SATISFACTION OF THE PROPERTY OWNER AND TOWNSHIP, AT THE CONTRACTOR'S SOLE EXPENSE. THIS ITEM INCLUDES: TOPSOIL, SEEDING, MULCHING, COMMERCIAL FERTILIZER, WATER, AND REPAIR SEEDING AND MULCHING.

PAYMENT FOR ITEM 659 SEEDING AND MULCHING, CLASS 1, AS PER PLAN, FOR ALL ABOVE OPERATIONS, SHALL BE AT THE CONTRACT SQUARE YARD BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

**ITEM SPECIAL REMOVE AND RESET MAILBOX, AS PER PLAN**

THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX, SUPPORT, AND HARDWARE. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION. THE CONTRACTOR WILL BE REQUIRED TO RESET THE EXISTING BOX AND SUPPORT USING THE EXISTING HARDWARE TO A CONDITION EQUAL TO THE CONDITION OF THE BOX AND SUPPORT PRIOR TO THE START OF CONSTRUCTION.

ANY BOX, SUPPORT, OR HARDWARE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED WITH EQUAL OR BETTER MATERIALS, AS DETERMINED BY THE OWNER, AT THE CONTRACTOR'S EXPENSE.

ALL BOXES WILL BE REPLACED IN THE SAME LOCATION AND MUST BE RESET THE SAME DAY SO DELIVERY IS NOT INTERRUPTED.

MAILBOX, COMPLETE IN PLACE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, FOR ITEM SPECIAL REMOVE AND RESET MAILBOX, AS PER PLAN.



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**HOPEWELL ROAD SIDEWALK, PHASE 2  
SYMMES TOWNSHIP  
GENERAL NOTES**

REVISIONS:

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DRAWN BY	IJW
CHECKED BY	TAN
PROJECT No.	HAMSYM2306
DATE	05-22-2025
SHEET NUMBER	

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EARTH WORK VOLUME TABLE

STATION	CUT AREA	FILL AREA	CUT VOL	FILL VOL
11+00.0	0.0	0.0	0	0
11+50.0	4.1	8.6	4	8
12+00.0	3.8	7.6	7	15
12+50.0	3.6	11.0	7	17
13+00.0	3.4	16.4	7	25
13+50.0	3.5	16.8	6	31
14+00.0	3.7	20.3	7	34
14+50.0	3.6	13.2	7	31
15+00.0	3.5	15.3	7	26
15+50.0	3.5	24.5	6	37
16+00.0	3.6	13.9	7	36
16+50.0	3.5	13.7	7	26
17+00.0	3.9	18.9	7	30
17+50.0	3.8	14.0	7	30
18+00.0	3.7	13.5	7	25
18+50.0	3.5	11.5	7	23
19+00.0	3.6	13.6	7	23
19+50.0	3.3	20.2	6	31
20+00.0	3.5	10.4	6	28
20+50.0	3.5	13.9	6	22
21+00.0	3.6	10.3	7	22
21+50.0	3.7	5.0	7	14
22+00.0	3.4	3.3	7	8
22+33.1	3.2	2.8	4	4
22+50.0	3.2	2.9	2	2
23+00.0	3.9	2.7	7	5
23+50.0	3.3	7.0	7	9
23+72.0	3.3	20.9	3	11
24+00.0	0.0	0.0	2	11
<b>TOTAL</b>			<b>144</b>	<b>584</b>

ESTIMATED QUANTITIES

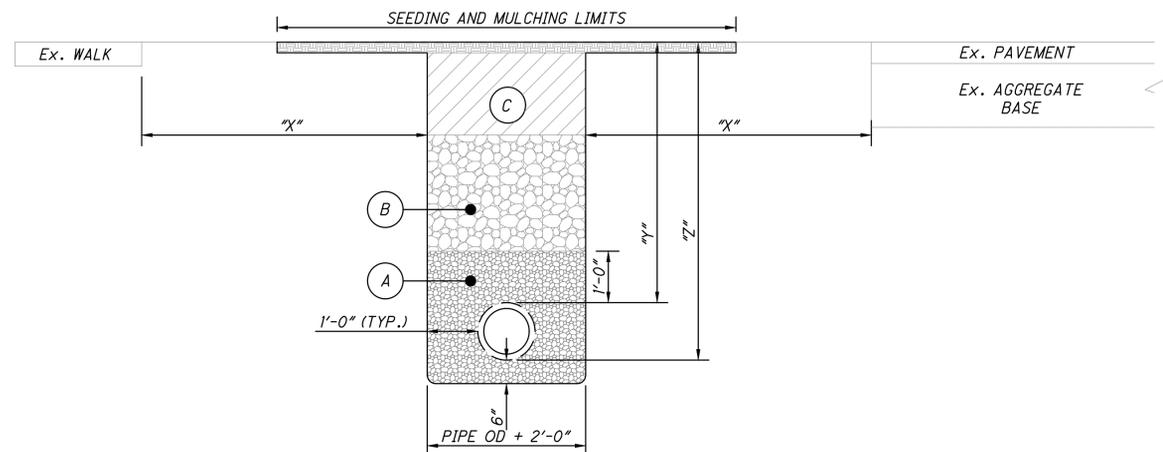
ITEM NO.	DESCRIPTION	UNIT OF MEASURE	APPROX. QTY.
201	CLEARING AND GRUBBING, AS PER PLAN	LUMP	1
202	REMOVED, AS PER PLAN	LUMP	1
202	CURB REMOVED	FT.	10
202	WALK REMOVED	S.F.	34
202	PIPE REMOVED, 24" AND UNDER	FT.	130
202	GUARDRAIL REMOVED	FT.	447
203	EXCAVATION	C.Y.	144
203	EMBANKMENT	C.Y.	584
301	ASPHALT CONCRETE BASE, PG64-22, (449)	C.Y.	119
304	AGGREGATE BASE	C.Y.	103
407	NON-TRACKING TACK COAT	GAL.	57
411	STABILIZED CRUSHED AGGREGATE	C.Y.	86
441	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449)	C.Y.	20
441	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22	C.Y.	20
452	7" NON-REINFORCED CONCRETE PAVEMENT, AS PER PLAN	S.Y.	20
606	GUARDRAIL, TYPE MGS, AS PER PLAN	FT.	617
606	ANCHOR ASSEMBLY, MGS, TYPE E	EACH	1
608	5" CONCRETE WALK, AS PER PLAN	S.F.	8535
608	CURB RAMP, AS PER PLAN	S.F.	507
609	TYPE 6 BARRIER CURB, AS PER PLAN	FT.	1292
611	4" CONDUIT, TYPE B, 707.45, AS PER PLAN	FT.	25
611	6" CONDUIT, TYPE B, 707.45, AS PER PLAN	FT.	25
611	8" CONDUIT, TYPE B, 707.45, AS PER PLAN	FT.	25
611	12" CONDUIT, TYPE B, AS PER PLAN	FT.	816
611	15" CONDUIT, TYPE B, AS PER PLAN	FT.	276
611	18" CONDUIT, TYPE B, AS PER PLAN	FT.	250
611	CATCH BASIN, TYPE 1, AS PER PLAN	EACH	5
611	CATCH BASIN, 2-2B, AS PER PLAN	EACH	4
614	MAINTAINING TRAFFIC	LUMP	1
623	MONUMENT BOX	EACH	1
623	CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN	LUMP	1
630	GROUND MOUNTED SUPPORT, NO. 3 POST	FT.	136
630	SIGN, FLAT SHEET	EACH	108
630	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	EACH	2
630	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	EACH	1
644	CENTER LINE	MILE	0.02
644	CROSSWALK LINE, 12"	FT.	84
644	CROSSWALK LINE, 24"	FT.	120
644	EDGE LINE, 4"	MILE	0.239
659	SEEDING AND MULCHING, CLASS 1, AS PER PLAN	S.Y.	1870
832	EROSION CONTROL	EACH	800
SPEC	REMOVE AND RESET MAILBOX, AS PER PLAN	EACH	1



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HOPEWELL ROAD SIDEWALK, PHASE 2  
SYMMESS TOWNSHIP  
EARTHWORK AND ESTIMATED QUANTITIES

REVISIONS:
FILE NAME GND01
DRAWN BY I.J.W.
CHECKED BY TAN
PROJECT No. HAMSYM2306
DATE 05-22-2025
SHEET NUMBER 7 OF 26

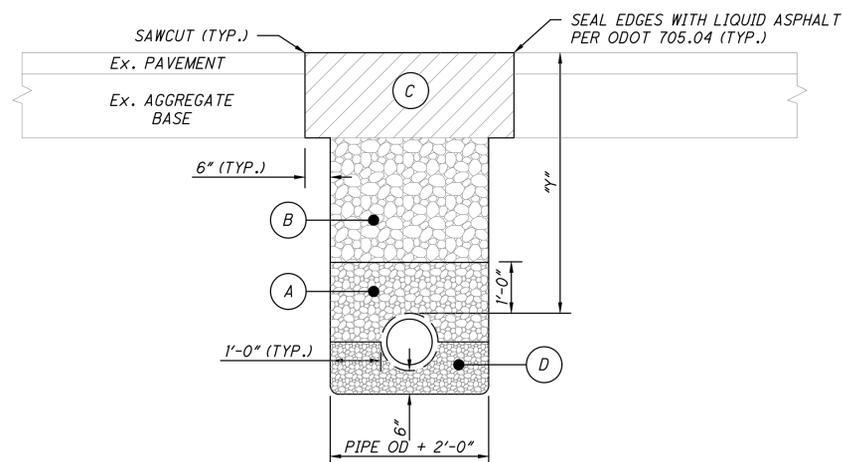


**OUTSIDE PAVEMENT AREAS**

"X"= DISTANCE FROM EDGE OF TRENCH TO EDGE OF CLOSEST PROPOSED OR EXISTING PAVEMENT, CURB, DRIVEWAYS, ALLEYS, STONE AREA OR WALKS.

"Z"= DISTANCE FROM TOP OF BEDDING TO FINISH SURFACE.

"Y"= DEPTH OF COVER FOR PROPOSED CONDUIT  
 WATER MAINS.....4'-6" MIN. (REFER TO PROFILE)  
 STORM SEWERS.....2'-0" MIN. (REFER TO PROFILE)  
 SANITARY SEWERS.....4'-0" MIN. (REFER TO PROFILE)



**IN PAVEMENT AREAS**

**NOTES**

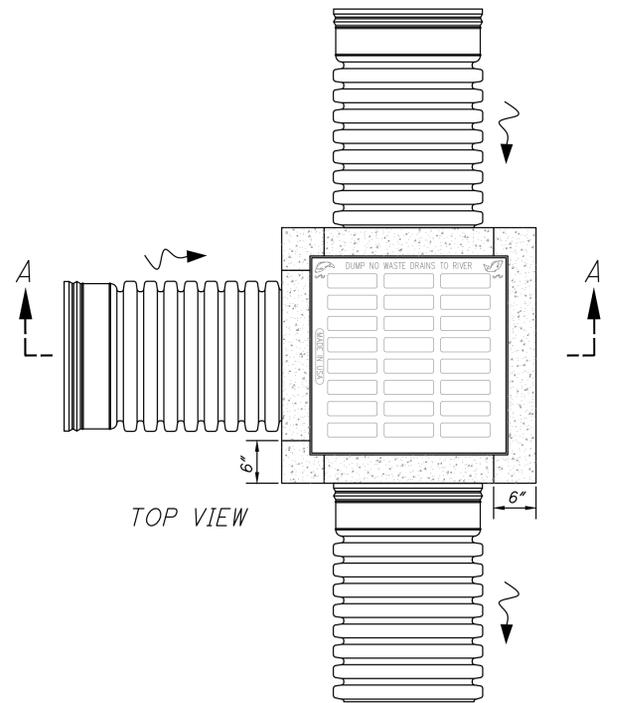
- (A) BEDDING SHALL BE PER ODOT 703.11 "STRUCTURAL BACKFILL FOR 611 BEDDING AND BACKFILL" TYPE 3 (#57 OR #67 AGGREGATE), OR OTHER APPROVED EQUIVALENT BY THE TOWNSHIP. THERE SHALL BE 6" MIN. BEDDING BELOW THE PIPE. THE FOLLOWING BEDDING MATERIAL SHALL BE USED PER PROPOSED CONDUIT:
  - WATER MAIN, WATER SERVICES, FIRE HYDRANTS AND APPURTENANCES - SHALL BE NATURAL CRUSHED STONE OR NATURAL GRAVEL.
  - STORM AND SANITARY SEWERS - GRANULAR MATERIAL ODOT ITEM 304 OR ITEM 310 OR #57 STONE; 98% COMPACTION
- (B) STRUCTURAL BACKFILL - DENSITY TEST TO 95% OF ASTM D698 STANDARD PROCTOR CURVE MAY BE REQUIRED BY THE TOWNSHIP TO BE COMPLETED BY A CERTIFIED COMMERCIAL TESTING LABORATORY.
 

FOR "OUTSIDE PAVEMENT AREAS":  
 ALL TRENCHES WHERE "X" IS GREATER THAN "Z", THE BACKFILL MATERIAL SHALL BE COMPACTED NATIVE MATERIAL IN 12" MAXIMUM LIFTS OR AS APPROVED BY THE TOWNSHIP. NO MATERIAL SHALL BE USED FOR BACKFILLING THAT CONTAINS STONE, ROCKS, ETC., GREATER THAN 3" DIAMETER.

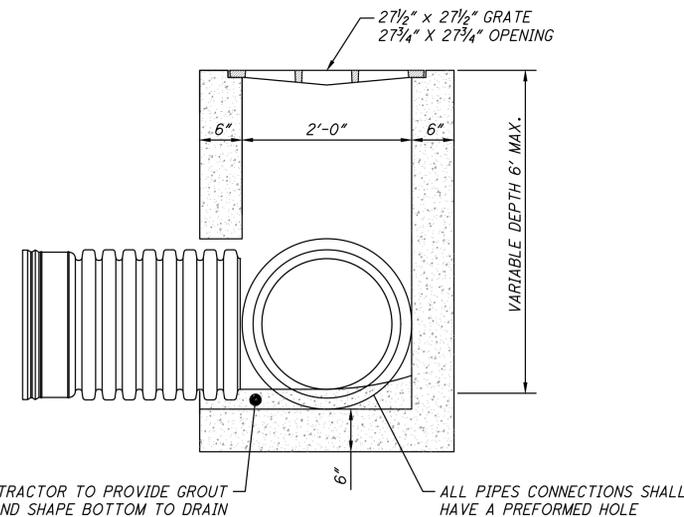
ALL TRENCHES WHERE "Z" IS GREATER THAN "X", THE BACKFILL MATERIAL SHALL BE ODOT ITEM 703.11, TYPE 1 (#304 AGGREGATE). THE AGGREGATE SHALL BE COMPACTED IN 12" MAXIMUM LIFTS AND BE USED UNTIL THE BACKFILL HEIGHT RESULTS IN "X" BEING GREATER THAN "Z" AT WHICH TIME NATIVE BACKFILL CAN BE USED.

FOR "IN PAVEMENT AREAS":  
 STRUCTURAL BACKFILL (611.06): TYPE B CONDUIT-UNDER PAVEMENT & 3 FT. BEHIND CURB: HAMCIN: CLSM-CDF
- (C) ALL "OUTSIDE PAVEMENT AREAS" SHALL RECEIVE A MIN. OF 6" OF TOPSOIL OVER THE COMPACTED MATERIAL AND THEN SEEDED PER ODOT 659. ALL "IN PAVEMENT AREAS" SHALL FOLLOW THE CORRESPONDING PAVEMENT COMPOSITION PROVIDED IN THE HATCH LEGEND. THE TRENCH DETAIL SHOWS THE PAVEMENT REPAIR LIMITS. ANY PAVEMENT REPAIR BEYOND THIS WILL BE AT THE COST OF THE CONTRACTOR.
- (D) HAUNCHING (RCP): GRANULAR MATERIAL - (611.06, 703.11) CLASS B BEDDING MATERIAL PLACED AND COMPLETED IN ACCORDANCE WITH THE PIPE MANUFACTURER'S RECOMMENDATIONS.  
 HAUNCHING (THERMOPLASTIC & HDPE PIPE): GRANULAR MATERIAL - #57 STONE, AASHTO M43, (REFERENCE ODOT 703), MECH. COMPACTED

**TRENCH DETAIL**  
 NTS



TOP VIEW



SECTION A-A

**NOTES**

- A. LOCATION AND ELEVATIONS WHEN GIVEN ON THE PLANS IS TOP CENTER OF THE GRATE. WHEN SIDE OPENINGS ARE PROVIDED, ELEVATION SHALL BE THE FLOW LINE OF THE SIDE INLET.
- B. CATCH BASINS INSTALLED IN NON-PAVED AREAS SHALL BE PROVIDED WITH A RECESSED GRATE MANUFACTURED BY NEENAH CATALOG NO. R-4859-C (TYPE A) OR EAST JORDAN IRON WORKS 5110 (TYPE M3) OR EQUIVALENT.
- C. CONCRETE, CAST-IN-PLACE, TO BE ODOT QC 1. PRECAST CONSTRUCTION IS PERMITTED AND CONCRETE SHALL MEET THE REQUIREMENTS OF 706.13.
- D. GRATE ELEVATION TO BE PLACED 4" - 6" BELOW THE NORMAL DITCH LINE RETURNING TO NORMAL 10'-0" ON EACH SIDE OF STRUCTURE.
- E. CATCH BASIN SHALL ACCOMMODATE AN 18" OR SMALLER PIPE.
- F. PIPE TO INTRUDE INTO CATCH BASIN 1" MAXIMUM AND PIPE MUST BE CUT PARALLEL TO CATCH BASIN. CONTRACTOR TO USE NON-SHRINK GROUT COMPLETELY SEAL AROUND THE PIPE AND CATCH BASIN.

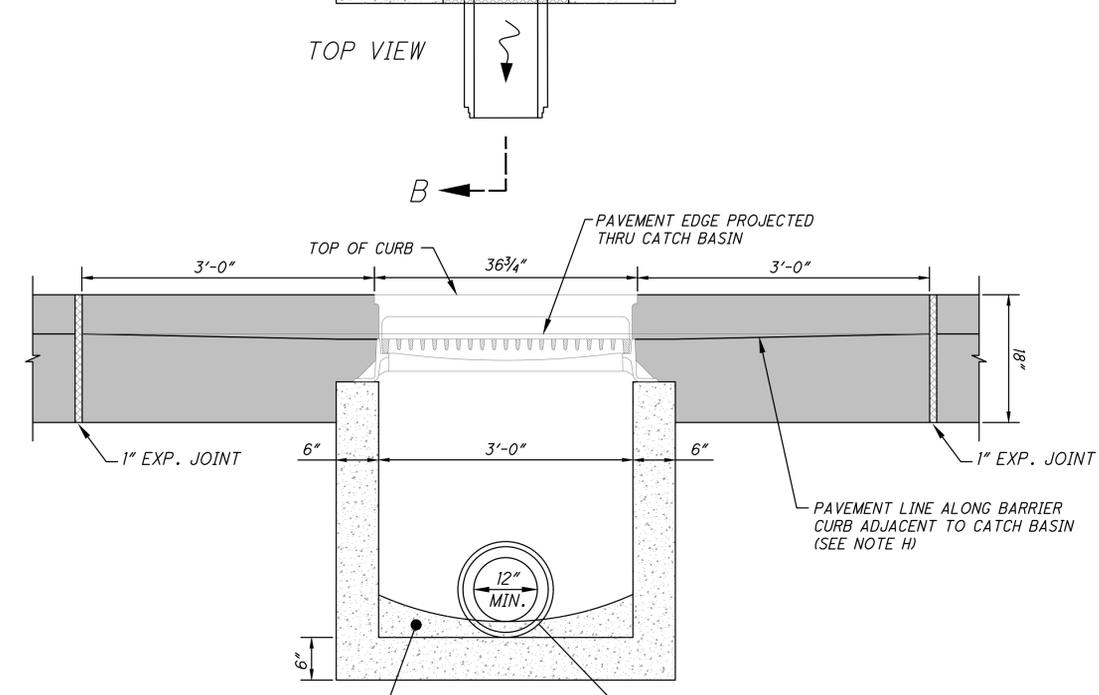
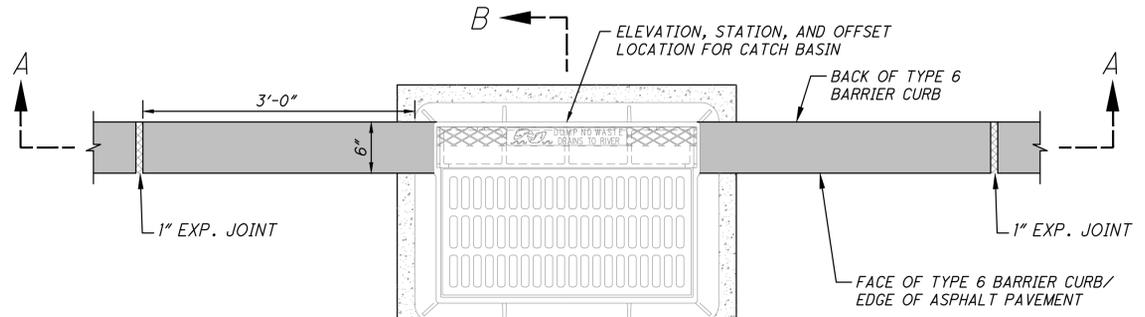
**2-2B CATCH BASIN (NON-PAVED AREAS)**

**REVISIONS:**

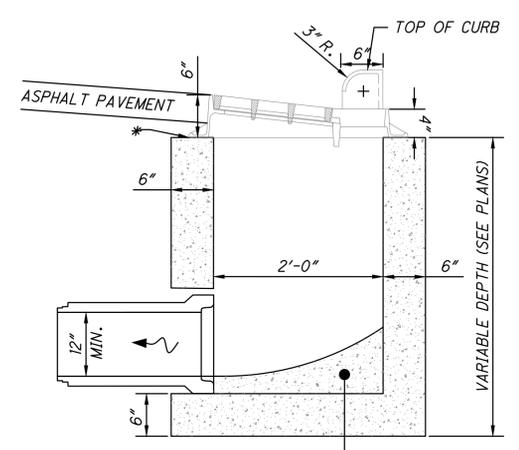
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DRAWN BY	IJW
CHECKED BY	TAN
PROJECT No.	HAMSYM2306
DATE	05-22-2025
SHEET NUMBER	8 OF 26

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CONTRACTOR TO PROVIDE GROUT UP TO PIPE INVERT AND SHAPE BOTTOM TO DRAIN



CONTRACTOR TO PROVIDE GROUT UP TO PIPE INVERT AND SHAPE BOTTOM TO DRAIN

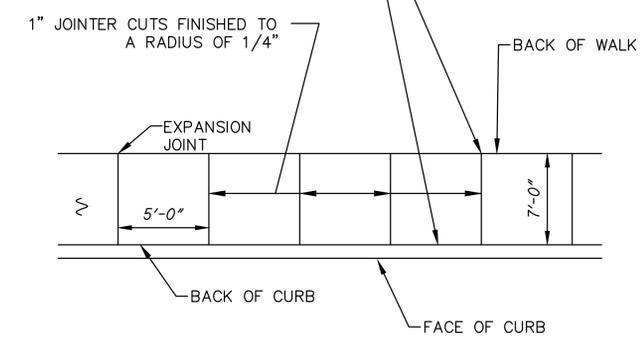
SECTION B-B

**NOTES**

- A. INLET FRAME SHALL BE NEENAH R-3067 OR EAST JORDAN IRON WORKS 7030Z1 OR EQUIVALENT.
- B. CURB BOX/HOOD, FOR TYPE 2 COMBINATION CURB AND GUTTER, SHALL BE NEENAH R-3067 CURB BOX (3" RADIUS) OR EAST JORDAN IRON WORKS TYPE T4
- C. CATCH BASINS IN DRIVE APPROACHES (TO BE AVOIDED, IF POSSIBLE) SHALL BE PROVIDED WITH A CURB PLATE INSTEAD OF A CURB BOX (NEENAH R-3067 WITH CURB PLATE) OR EQUAL.
- D. STANDARD GRATE SHALL BE NEENAH TYPE A, OR EQUIVALENT. ALL BAR EDGESTO BE ROUNDED 1/8" RADIUS.
- E. CONCRETE, CAST-IN-PLACE, TO BE ODOT QC 1. PRECAST CONSTRUCTION IS PERMITTED AND CONCRETE SHALL MEET THE REQUIREMENTS OF 706.13.
- F. EXPANSION JOINTS SHALL BE PER ODOT 705.03, AASHTO M153, VINYL RUBBER MATERIAL MANUFACTURED BY RIGHT/POINTE, W.R. MEADOWS, OSCODA PLASTICS OR EQUAL AND BE INSTALLED AS INDICATED IN THE DETAIL.
- G. PIPE TO INTRUDE INTO CATCH BASIN 1" MAXIMUM AND PIPE MUST BE CUT PARALLEL TO CATCH BASIN. USE NON-SHRINK GROUT AROUND PIPE TO SEAL BETWEEN PIPE AND CATCH BASIN.
- H. THE SLOPE ACROSS THE GRATE FORM FRONT TO BACK IS 1/2", THEREFORE THE ADJACENT PAVEMENT ON EACH SIDE TRANSITION DOWN THE 1/2" WITHIN THE 3'-0" BLOCK OUT OF SECTION OF THE BARRIER CURB.
- I. ALL GRATES SHALL BE BICYCLE SAFE.

TYPE 1 CATCH BASIN (IN BARRIER CURB)

EXPANSION JOINT REQUIRED AT THE END OF EACH POUR, DRIVEWAY, PROPERTY LINE, OR ANY FIXED STRUCTURE, MAXIMUM SPACING BETWEEN EXPANSION JOINTS SHALL NOT EXCEED 100 FEET.



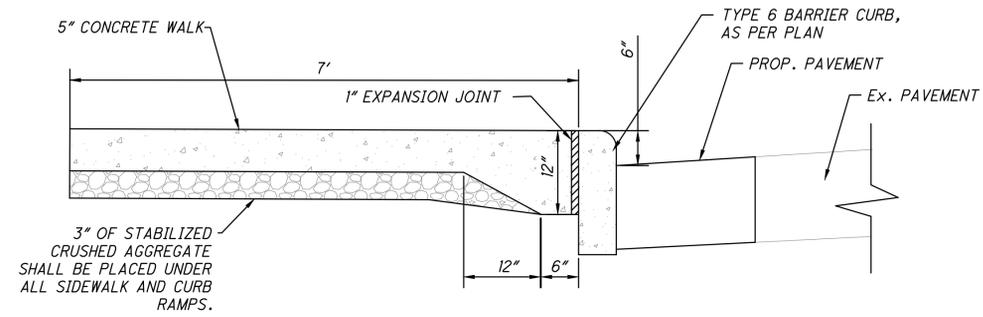
SIDEWALK NOTES

- SIDEWALK NOTE:**
- A. WALK TO BE POURED ON ITEM 411, 3" STABILIZED CURSHED AGGREGATE BEDDING.
  - B. EQUIPMENT: SIDE FORMS SHALL BE OF STEEL, STRAIGHT AND OF A DEPTH EQUAL TO THE THICKNESS OF THE PAVEMENT AT ITS EDGE. THE USE OF BENT OR DAMAGED SIDE FORMS OR FORMS WITH DAMAGE JOINT LOCKS OR PIN POCKETS SHALL NOT BE PERMITTED. ALL FORMS SHALL BE CLEANED AND OILED EACH TIME THEY ARE USED. FLEXIBLE OR CURVED FORMS SHALL BE USED FOR CONSTRUCTION OF CIRCULAR PAVEMENT EDGES WHERE RADIUS IS ONE HUNDRED FEET (100') OR LESS.
  - C. PROVIDE BROOM FINISH TO ALL EXPOSED SURFACES. TEXTURE SHALL BE A MEDIUM BROOM WITH TOOL FINISH, TOWNSHIP REPRESENTATIVE TO REVIEW AND APPROVE FIRST POUR.
  - D. CONCRETE SHALL CONFORM TO ODOT ITEM 499 CONCRETE. CONCRETE WORK SHALL CONFORM TO ODOT ITEM 608, UNLESS OTHERWISE SPECIFIED WITHIN.
  - E. PROVIDE EDGING AROUND ALL EXPOSED SURFACES.
  - F. APPLY 2 COATS OF SUPER DIAMOND CLEAR CURING AND SEALING COMPOUND OR WR MEADOWS, INC. CS-309-25, OR APPROVED EQUIVALENT PER MANUFACTURER'S RECOMMENDATION ON ALL SURFACES INCLUDING BACK IMMEDIATELY AFTER FINISHING SURFACES..
  - G. CONCRETE SHALL BE ODOT CLASS QC MISC. OR QC1, (4000 PSI, 600LB/CY CEMENT) ALL SIDEWALKS AND CURB RAMPS SHALL HAVE A MIN. THICKNESS OF 5"
  - H. EXPANSION JOINTS SHALL BE VINYL EXPANSION JOINT MATERIAL, MEETING ASTM D-1752 AND AASHTO 153-98.
  - I. CONTRACTION JOINTS: FORM WEAKENED-PLANE CONTRACTION JOINTS, SECTIONING CONCRETE INTO AREAS AS INDICATED IN THE PLANS. CONSTRUCT CONTRACTION JOINTS FOR A DEPTH EQUAL TO AT LEAST ONE-FOURTH OF THE CONCRETE THICKNESS, WHERE INDICATED, AS FOLLOWS:
    - a. GROOVED JOINTS: FORM CONTRACTION JOINTS AFTER INITIAL FLOATING BY GROOVING AND FINISHING EACH EDGE OF JOINT WITH GROOVER TOOL TO THE FOLLOWING RADIUS. REPEAT GROOVING OF CONTRACTION JOINTS AFTER APPLYING SURFACE FINISHES. ELIMINATE GROOVER OVERFLOW SLURRY MARKS ON CONCRETE SURFACES. QUALITY WORK SHALL BE PERFORMED OR THE NEW SIDEWALK WILL BE REMOVED AND REPOURED AT THE CONTRACTOR'S EXPENSE. RADIUS TO BE 1/4 INCH (6 MM).
    - b. SAWED JOINTS WILL NOT BE PERMITTED.
  - J. EDGING: TOOL EDGES OF JOINTS IN CONCRETE AFTER INITIAL FLOATING WITH AN EDGING TOOL TO A RADIUS OF 1/4 INCH (6 MM). REPEAT TOOLING OF EDGES AFTER APPLYING SURFACE FINISHES. ("PICTURE-FRAME" EACH SECTION OF CONCRETE WALK.) ELIMINATE TOOL MARKS (OVERFLOW SLURRY) ON CONCRETE SURFACES.
  - K. CONTRACTOR TO PROVIDE ISOLATION JOINTS BETWEEN FIXED OBJECTS(POLES, WATER METERS, ETC.) THAT ARE SHOWN IN THE PLANS WHERE THEIR LOCATION FALLS WITHIN THE PROPOSED SIDEWALK LIMITS. ISOLATION JOINTS SHALL BE VINYL EXPANSION JOINT MATERIAL, MEETING ASTM D-1752 AND AASHTO 153-98.

REVISIONS:

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**NOTES**

- A. WALK TO BE POURED ON 3" OF STABILIZED CRUSHED AGGREGATE
- B. PROVIDE BROOM FINISH AND HAND TOOLED EDGING (MINIMUM 2") TO ALL EXPOSED SURFACES.
- C. CONCRETE SHALL CONFORM TO ODOT ITEM 499 CONCRETE. CONCRETE WORK SHALL CONFORM TO ODOT ITEM 608, UNLESS OTHERWISE SPECIFIED WITHIN.
- D. CONCRETE SHALL BE ODOT CLASS QC-IP.
- E. CONCRETE SHALL CONTAIN 7% ± 2% OF TOTAL AIR.
- F. EXPANSION JOINTS SHALL BE PER ODOT 705.03, AASHTO M153, VINYL RUBBER MATERIAL MANUFACTURED BY RIGHT/POINTE, W.R. MEADOWS, OSCODA PLASTICS OR EQUAL AND BE INSTALLED AS INDICATED IN THE DETAIL.

**CONCRETE SIDEWALK ABUTTING BARRIER CURB**



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**HOPEWELL ROAD SIDEWALK, PHASE 2  
SYMMES TOWNSHIP  
GENERAL DETAILS**

REVISIONS:

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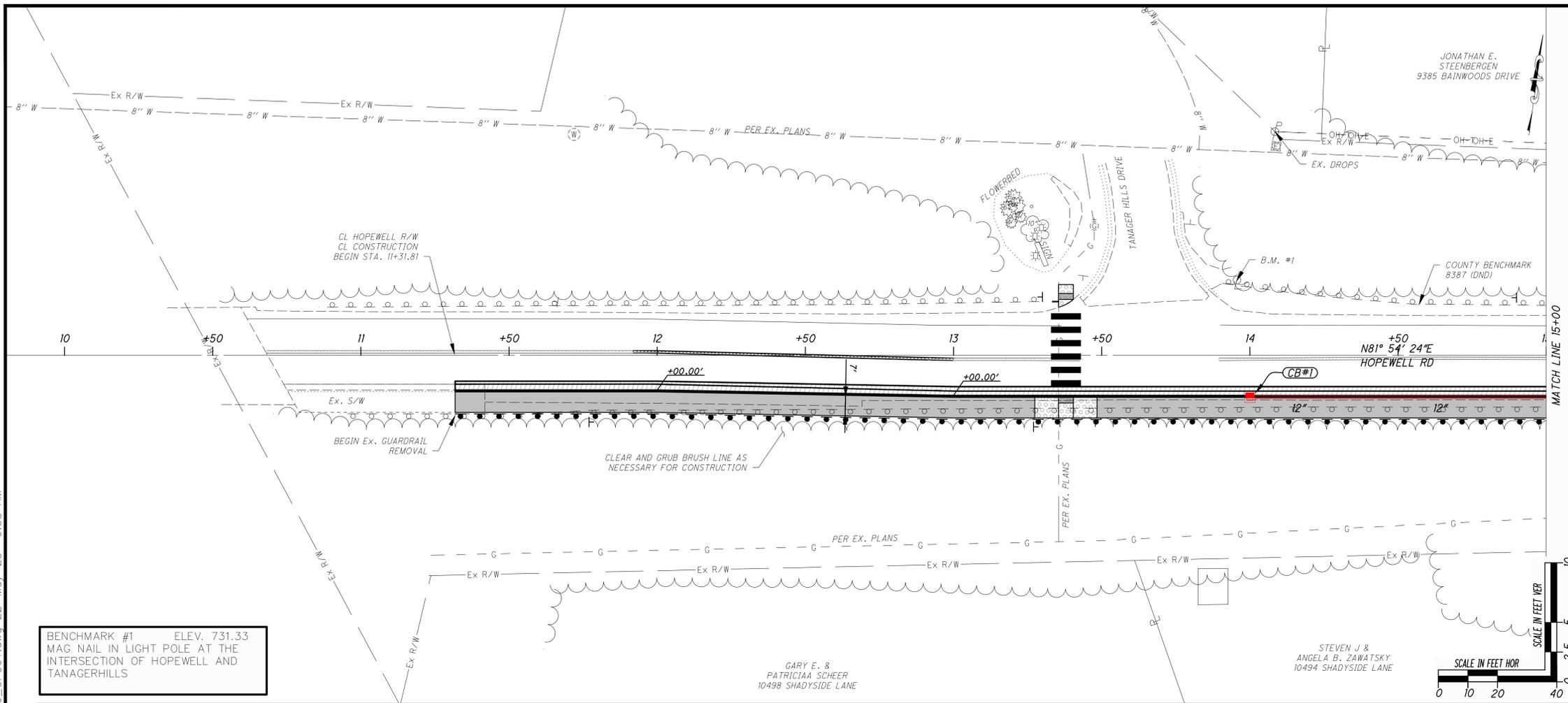
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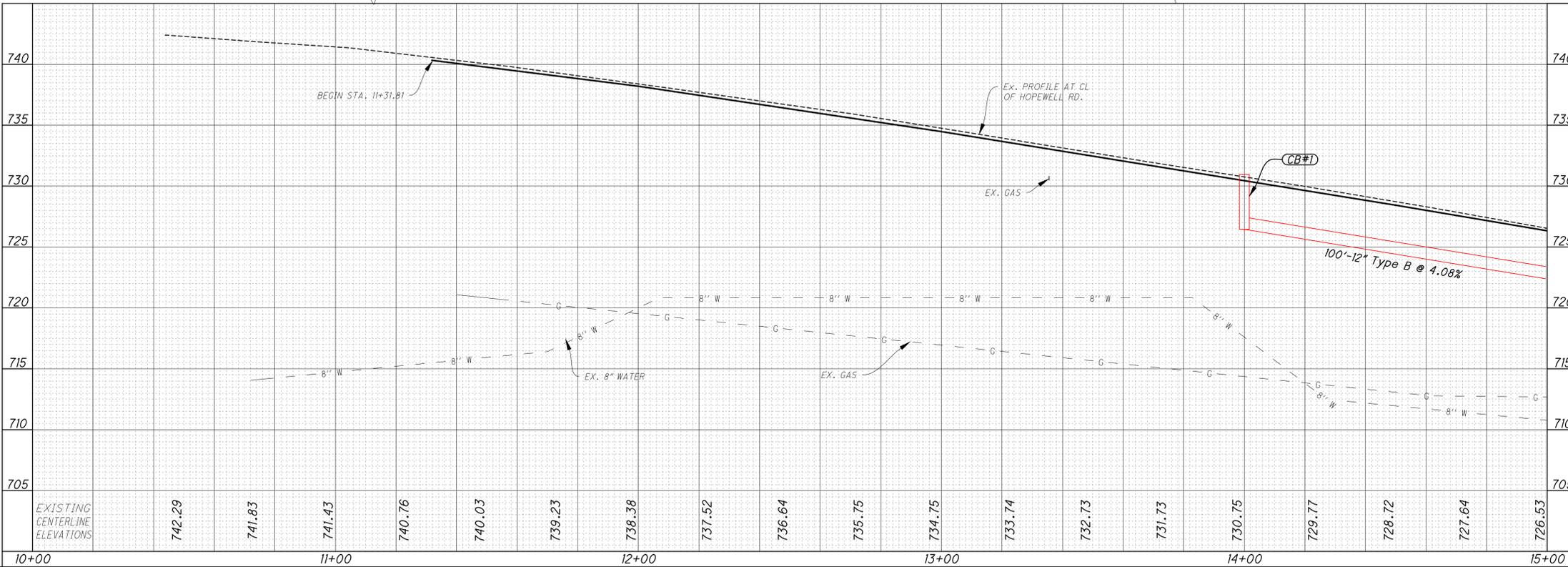
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10 OF 26

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BENCHMARK #1 ELEV. 731.33  
MAG NAIL IN LIGHT POLE AT THE  
INTERSECTION OF HOPEWELL AND  
TANGERHILLS



**HATCH LEGEND**

- CONCRETE WALK
- CURB RAMP
- ASPHALT PAVEMENT REPAIR
- RESIDENTIAL CONCRETE DRIVEWAY

**LEGEND**

- (ATG) - ADJUST TO GRADE
- (DND) - DO NOT DISTURB
- (R&R) - REMOVE AND RESET
- (TBR) - TO BE REMOVED
- (TBA) - TO BE ABANDONED
- (TBRLO) - TO BE RELOCATED BY OTHERS

**PROPOSED STORM STRUCTURES**

#1 TYPE 1 CB STA. 14+00.00, 14.00' RT B/C 730.94 12" E INV. 726.45
---



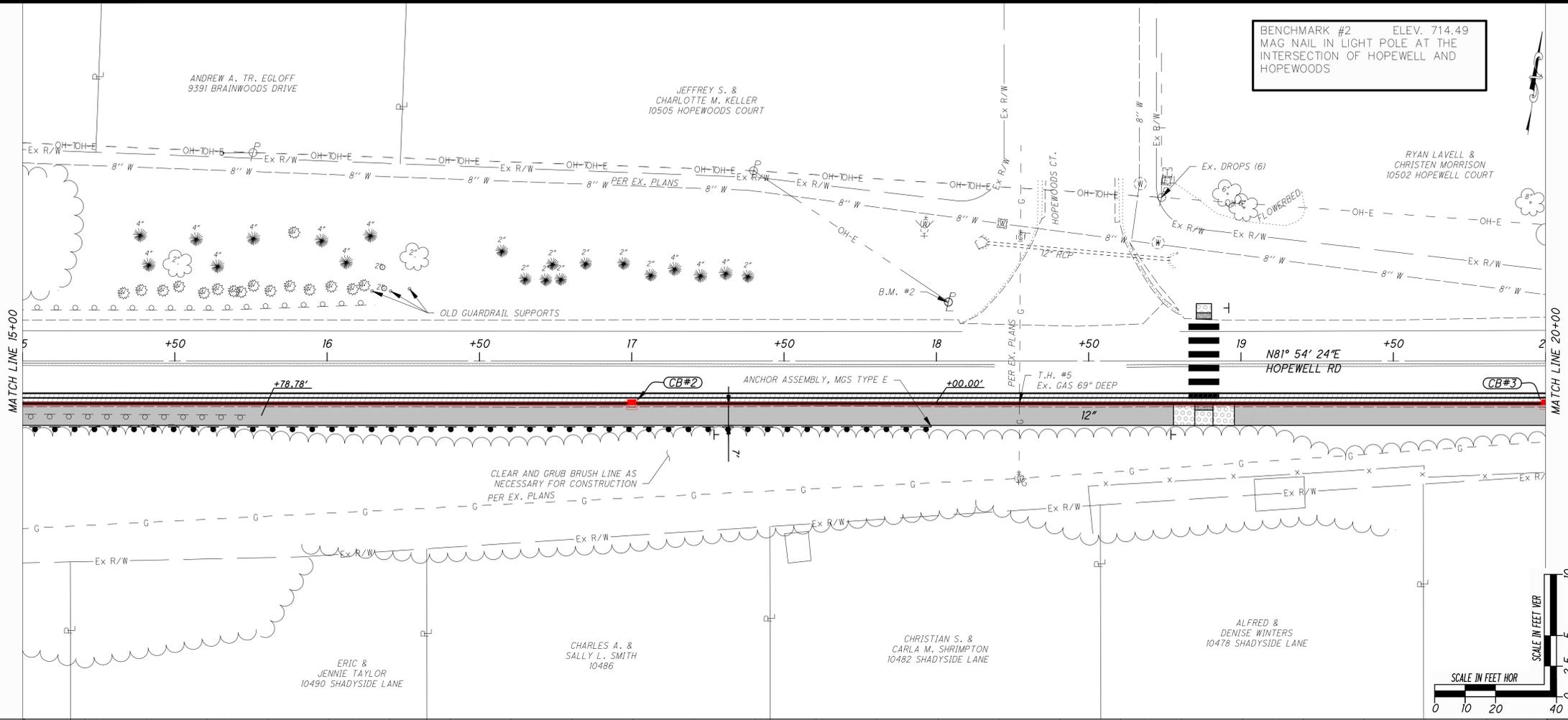
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**HOPEWELL ROAD SIDEWALK, PHASE 2  
SYMMES TOWNSHIP  
HOPEWELL ROAD P/P STA. 10+00 TO STA. 15+00**

REVISIONS:

FILE NAME	GPO01
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CHECKED BY	TAN
PROJECT No.	HAMSYM2306
DATE	05-22-2025
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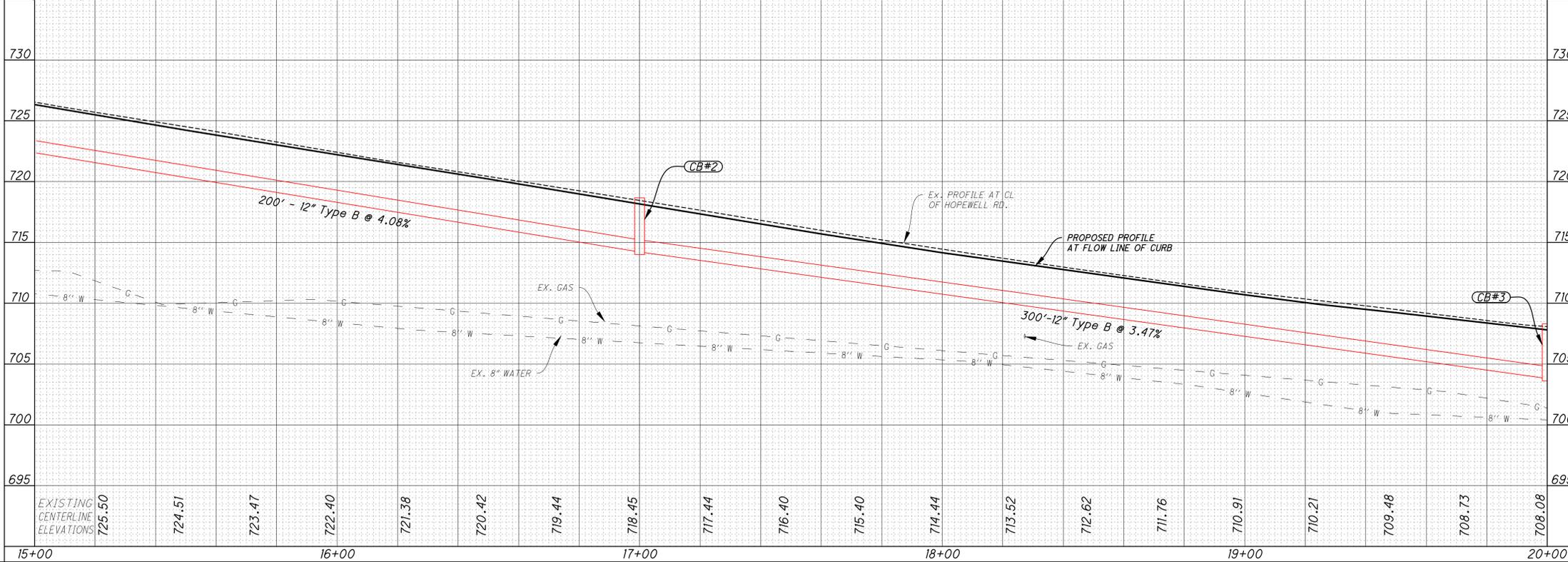
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### HATCH LEGEND

- CONCRETE WALK
- CURB RAMP
- ASPHALT PAVEMENT REPAIR
- RESIDENTIAL CONCRETE DRIVEWAY

- ### LEGEND
- (ATG) - ADJUST TO GRADE
  - (DND) - DO NOT DISTURB
  - (R&R) - REMOVE AND RESET
  - (TBR) - TO BE REMOVED
  - (TBA) - TO BE ABANDONED
  - (TBRLO) - TO BE RELOCATED BY OTHERS



PROPOSED STORM STRUCTURES	
#2 TYPE 1 CB	STA. 17+00.00, 14.00' RT
B/C	718.66
12" W INV.	714.21
12" E INV.	714.21
#3 TYPE 1 CB	STA. 20+00.00, 14.00' RT
B/C	708.31
12" W INV.	703.81
12" E INV.	703.81



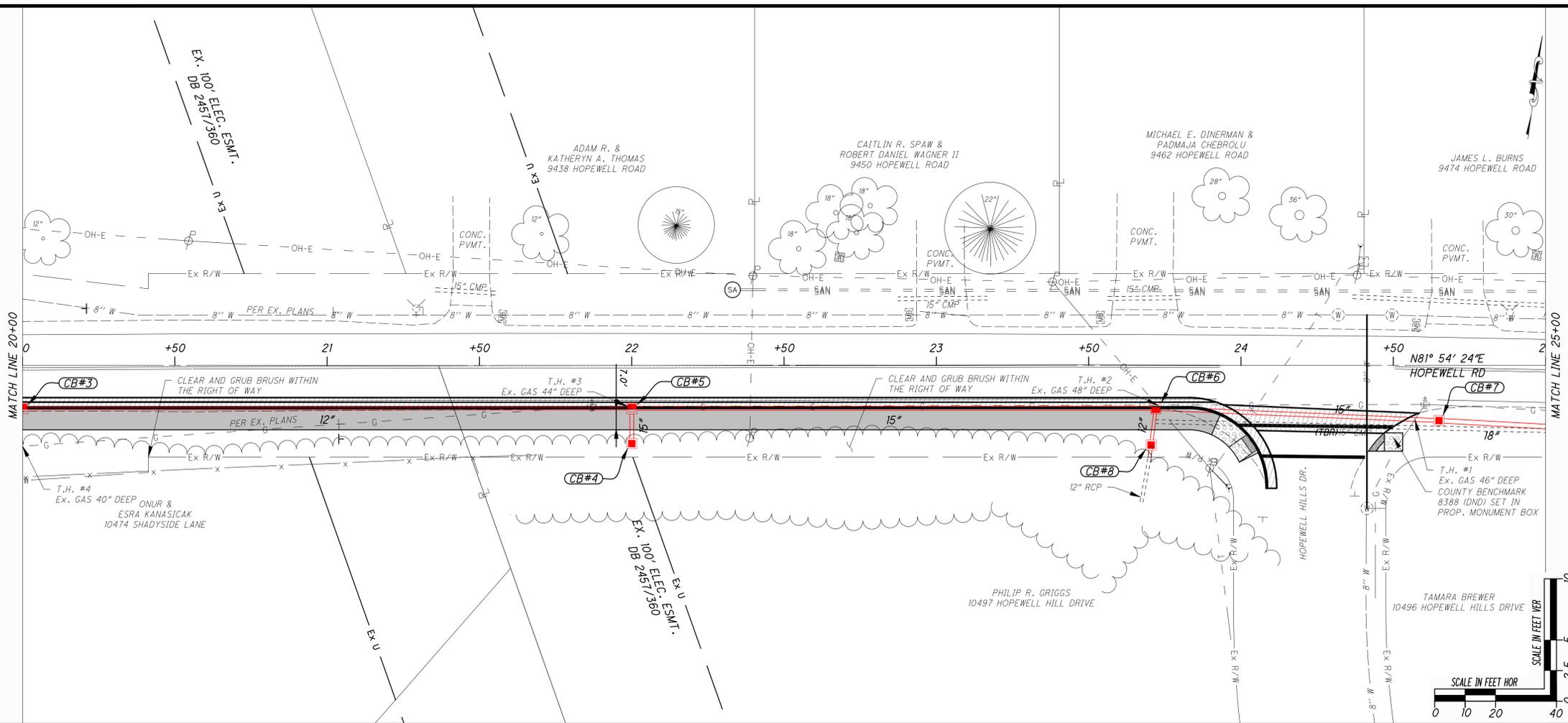
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**HOPEWELL ROAD SIDEWALK, PHASE 2**  
**SYMMES TOWNSHIP**  
**HOPEWELL ROAD P/P STA. 15+00 TO STA. 20+00**

REVISIONS:

FILE NAME	GPO01
DRAWN BY	IJW
CHECKED BY	TAN
PROJECT No.	HAMSYM2306
DATE	05-22-2025
SHEET NUMBER	12 OF 26

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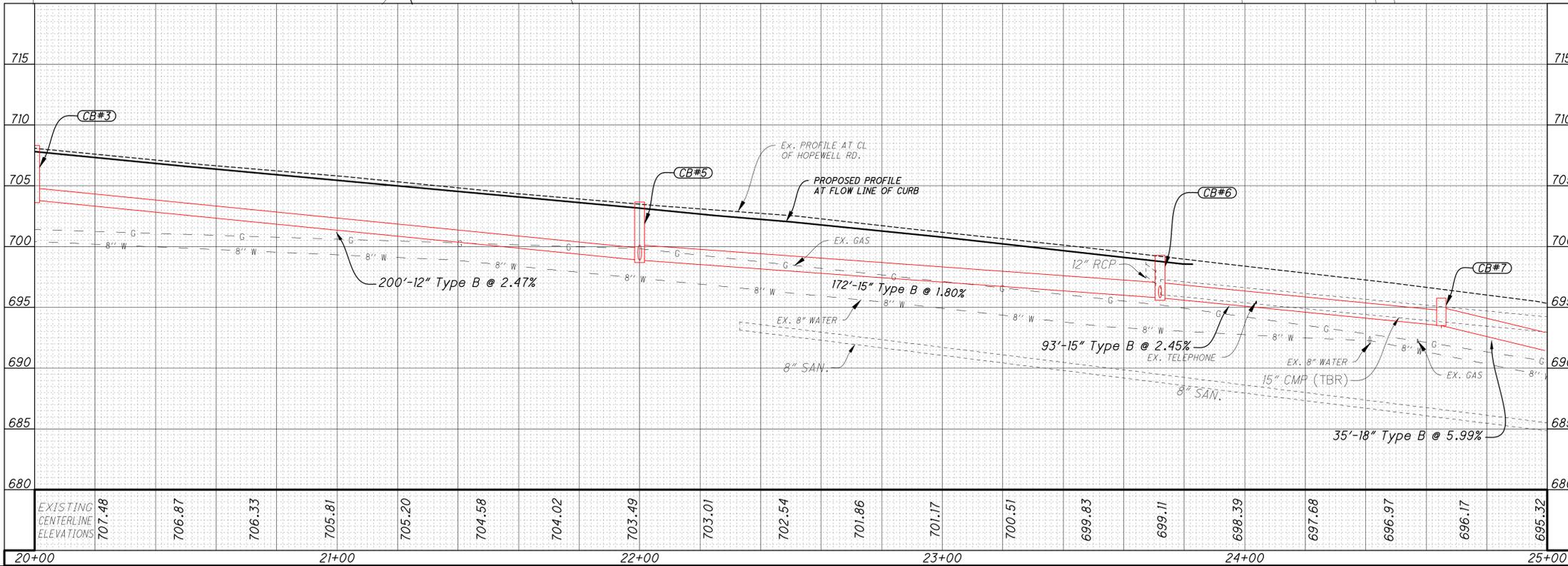
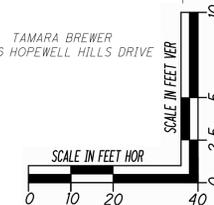


**HATCH LEGEND**

- CONCRETE WALK
- CURB RAMP
- ASPHALT PAVEMENT REPAIR
- RESIDENTIAL CONCRETE DRIVEWAY

**LEGEND**

- (ATG) - ADJUST TO GRADE
- (DND) - DO NOT DISTURB
- (R&R) - REMOVE AND RESET
- (TBR) - TO BE REMOVED
- (TBA) - TO BE ABANDONED
- (TBR/BO) - TO BE RELOCATED BY OTHERS



PROPOSED STORM STRUCTURES	
#3 TYPE 1 CB STA. 20+00.00, 14.00' RT B/C 708.31 12" W INV. 703.81 12" E INV. 703.81	
#4 TYPE 2-2B CB STA. 22+00.00, 25.50' RT TOP 702.55 15" N INV. 699.05	
#5 TYPE 1 CB STA. 22+00.00, 14.00' RT B/C 703.66 15" S INV. 698.88 15" E INV. 698.88 12" W INV. 698.88	
#6 TYPE 1 CB STA. 23+72.00, 14.00' RT B/C 699.28 15" W INV. 695.78 15" E INV. 695.78 12" S INV. 695.78	
#7 TYPE 2-2B CB STA. 24+65.00, 18.00' RT TOP 695.75 15" W INV. 693.50 18" E INV. 693.50	
#8 TYPE 2-2C CB STA. 23+70.48, 25.98' RT TOP 698.70 W/ EAST WINDOW INV. 697.70 12" N INV. 696.74 12" S INV. 696.74	



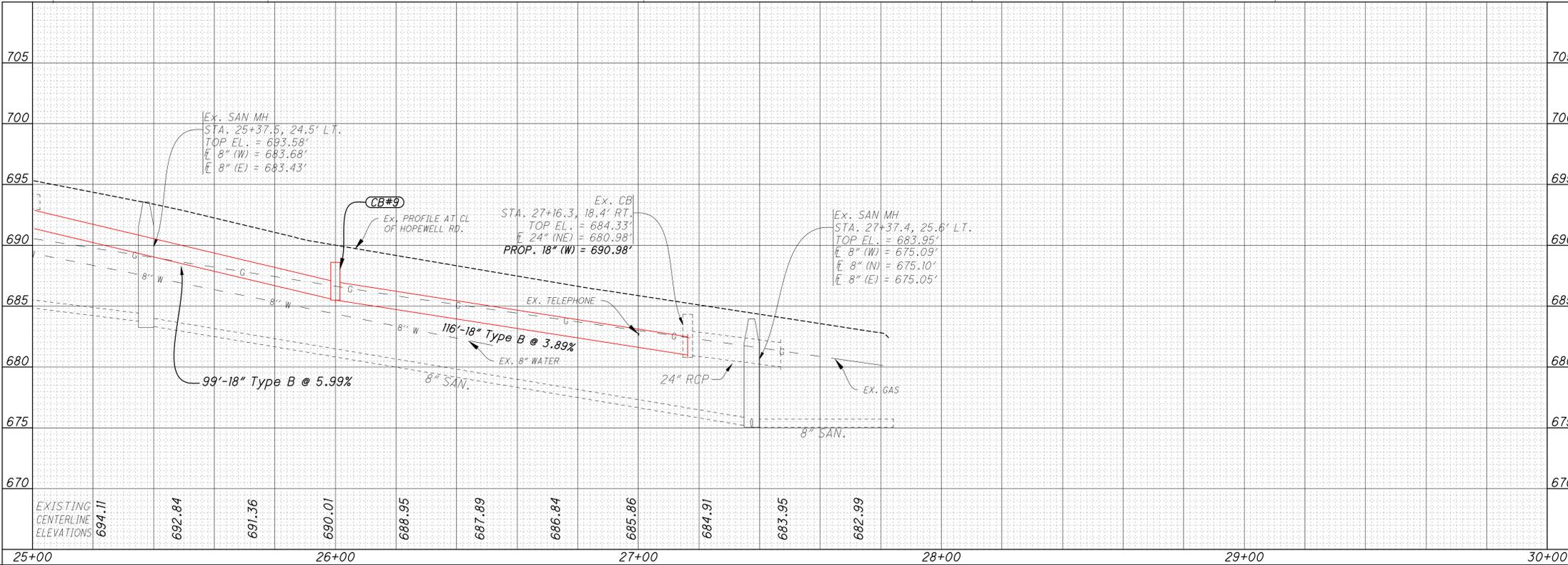
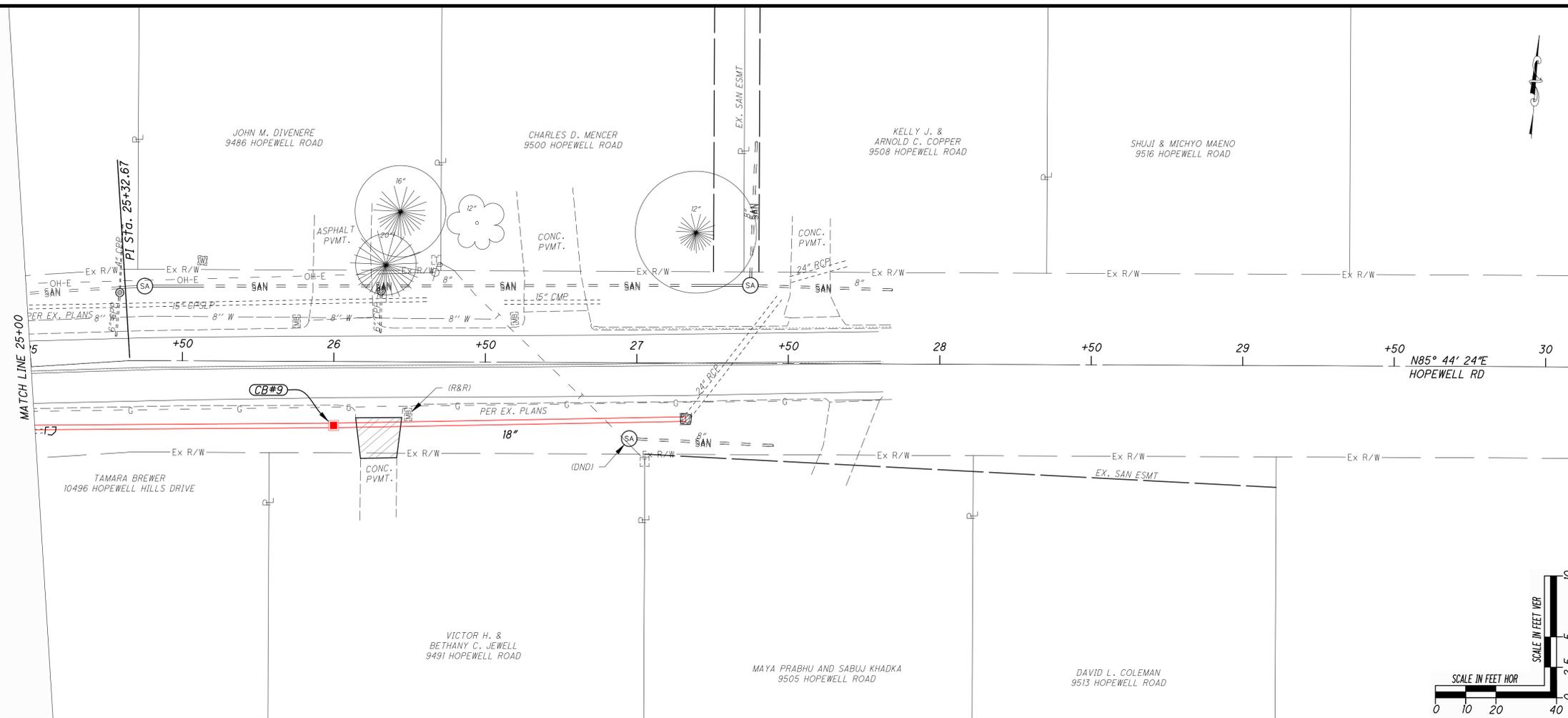
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**HOPEWELL ROAD SIDEWALK, PHASE 2  
SYMMES TOWNSHIP  
HOPEWELL ROAD P/P STA. 20+00 TO STA. 25+00**

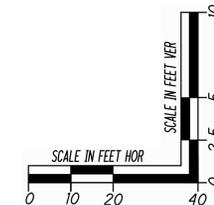
**REVISIONS:**

FILE NAME	GPO01
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PROJECT No.	HAMSYM2306
DATE	05-22-2025
SHEET NUMBER	13 OF 26

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- ### HATCH LEGEND
- CONCRETE WALK
  - CURB RAMP
  - ASPHALT PAVEMENT REPAIR
  - RESIDENTIAL CONCRETE DRIVEWAY
- ### LEGEND
- (ATG) - ADJUST TO GRADE
  - (DND) - DO NOT DISTURB
  - (R&R) - REMOVE AND RESET
  - (TBR) - TO BE REMOVED
  - (TBA) - TO BE ABANDONED
  - (TBRLO) - TO BE RELOCATED BY OTHERS



PROPOSED STORM STRUCTURES	
#9 TYPE 2-2B CB	STA. 26+00.00, 21.00' RT
TOP EL.	688.60
18" W INV.	685.50
18" E INV.	685.50

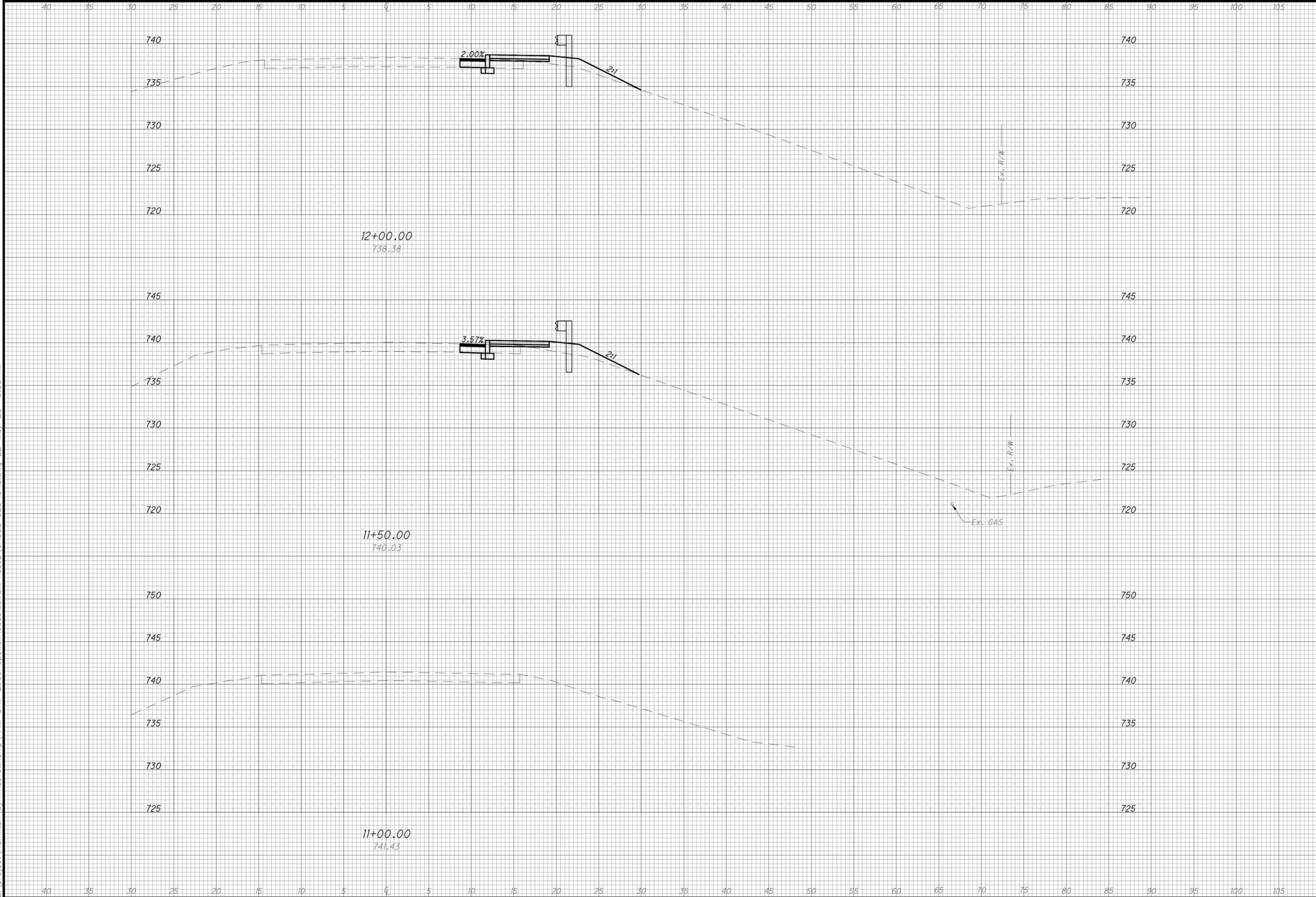
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PROJECT No.	HAMSYM2306
DATE	05-22-2025
SHEET NUMBER	14 OF 26

**HOPEWELL ROAD SIDEWALK, PHASE 2**  
**SYMMES TOWNSHIP**  
**HOPEWELL ROAD P/P STA. 25+00 TO STA. 30+00**

Choice One  
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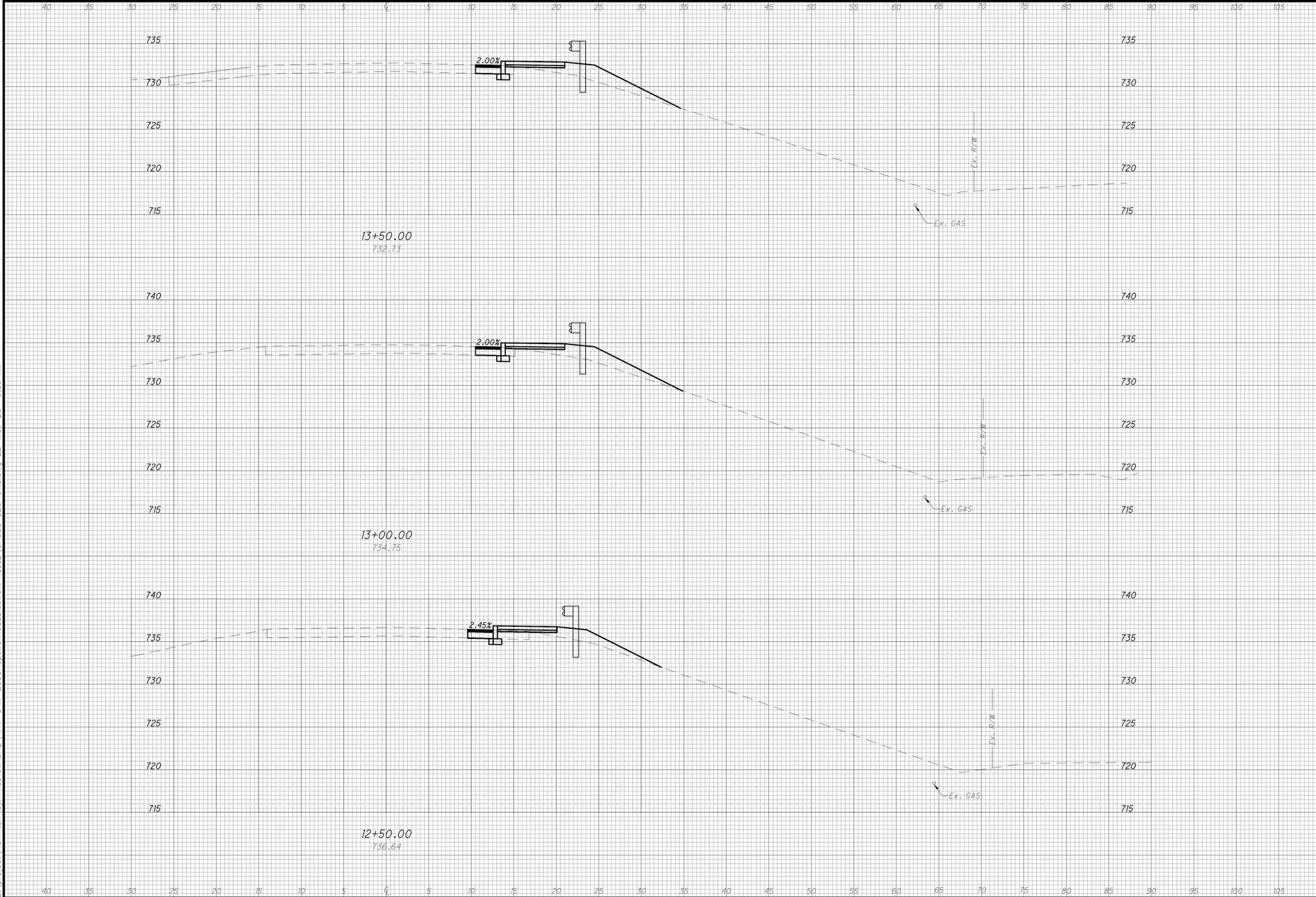
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**HOPEWELL ROAD SIDEWALK, PHASE 2**  
**SYMMES TOWNSHIP**  
**HOPEWELL ROAD C.S. STA. 11+00 TO STA. 12+00**

REVISIONS:

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PROJECT No.	HAMSYM2306
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SHEET NUMBER	15 OF 26

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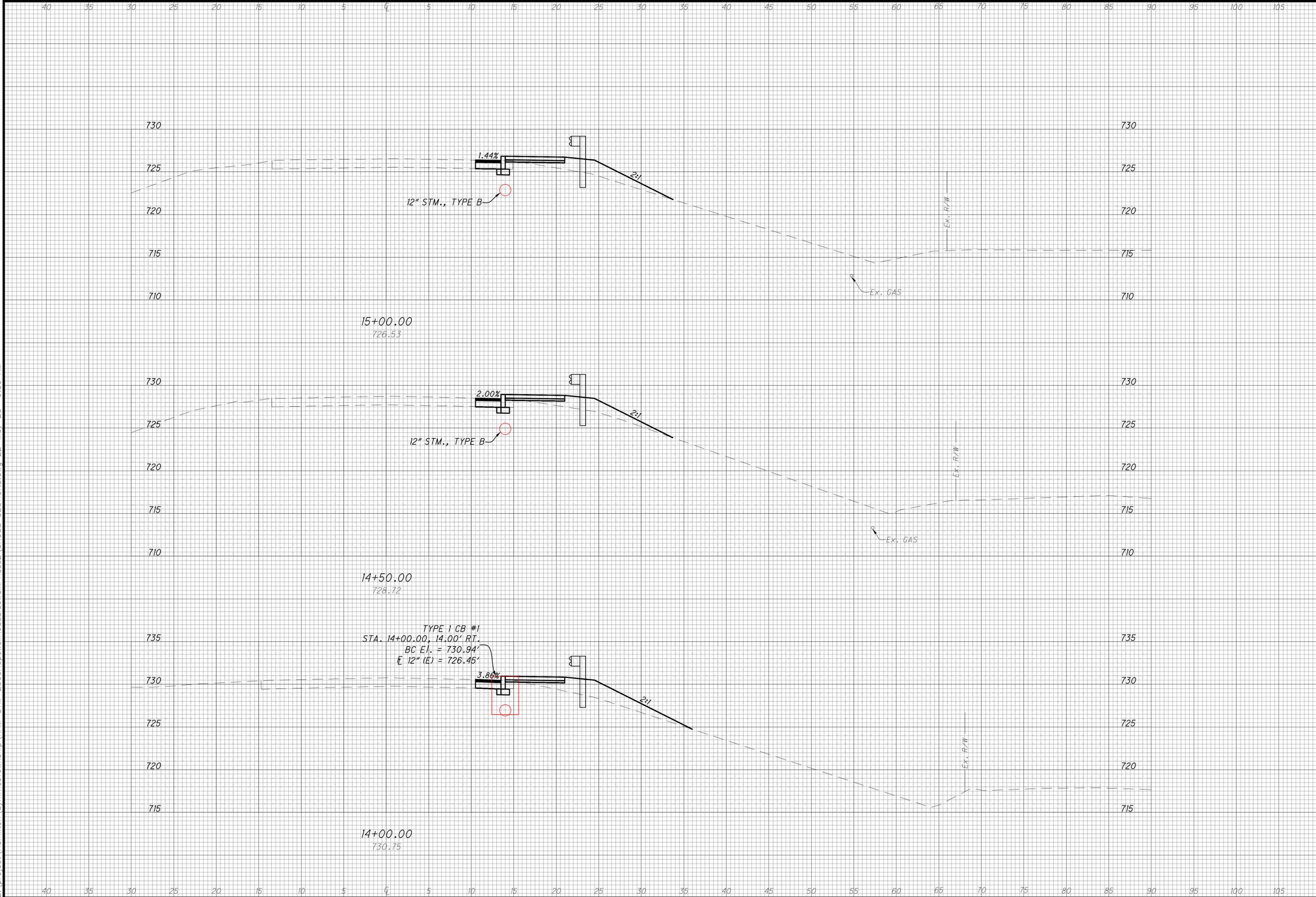
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**HOPEWELL ROAD SIDEWALK, PHASE 2**  
**SYMMES TOWNSHIP**  
**HOPEWELL ROAD C.S. STA. 12+50 TO STA. 13+50**

REVISIONS:

FILE NAME	CROSS SECTIONS
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SHEET NUMBER	16 OF 26

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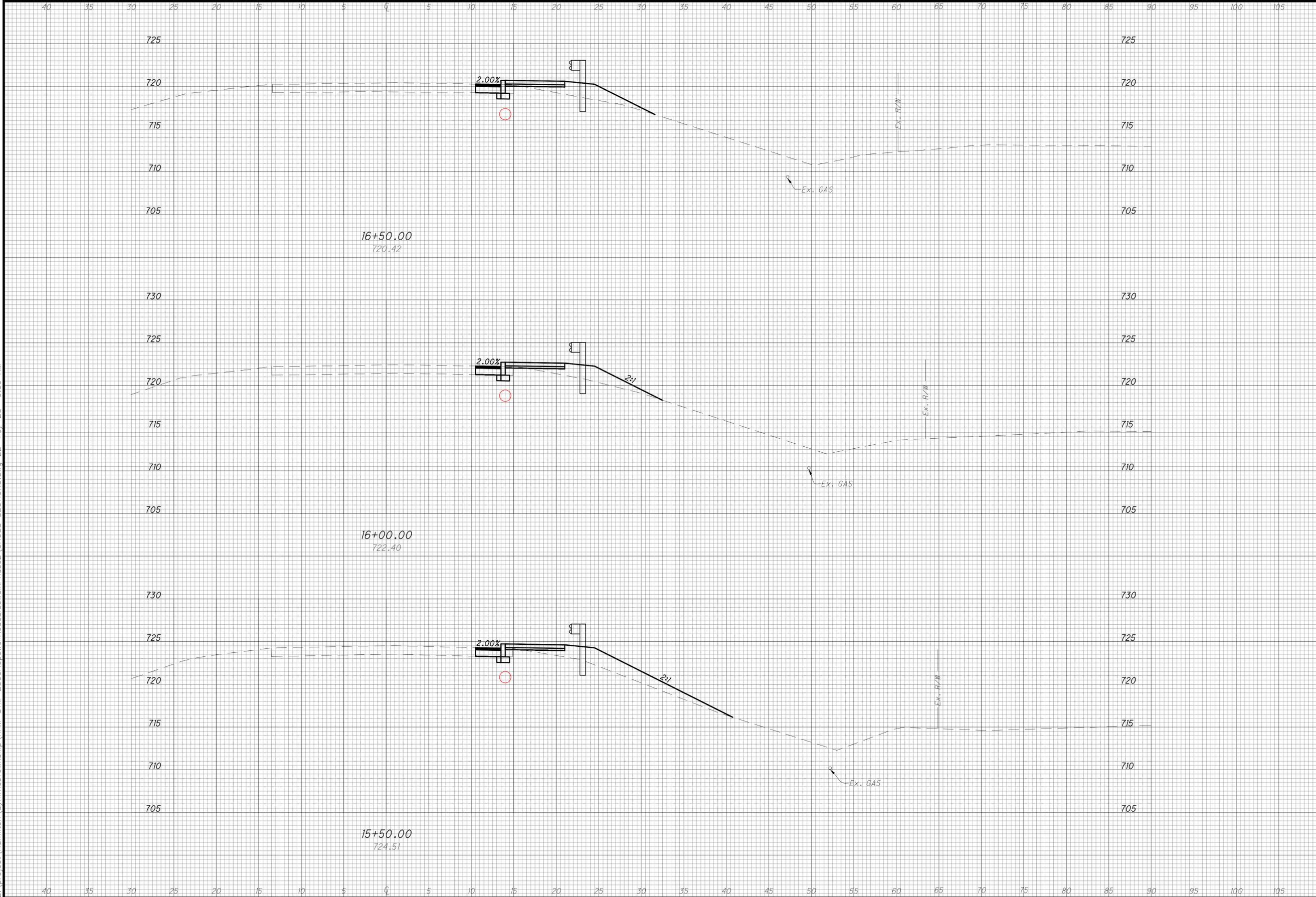
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**HOPEWELL ROAD SIDEWALK, PHASE 2**  
**SYMMES TOWNSHIP**  
**HOPEWELL ROAD C.S. STA. 14+00 TO STA. 15+00**

REVISIONS:

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SHEET NUMBER	17 OF 26

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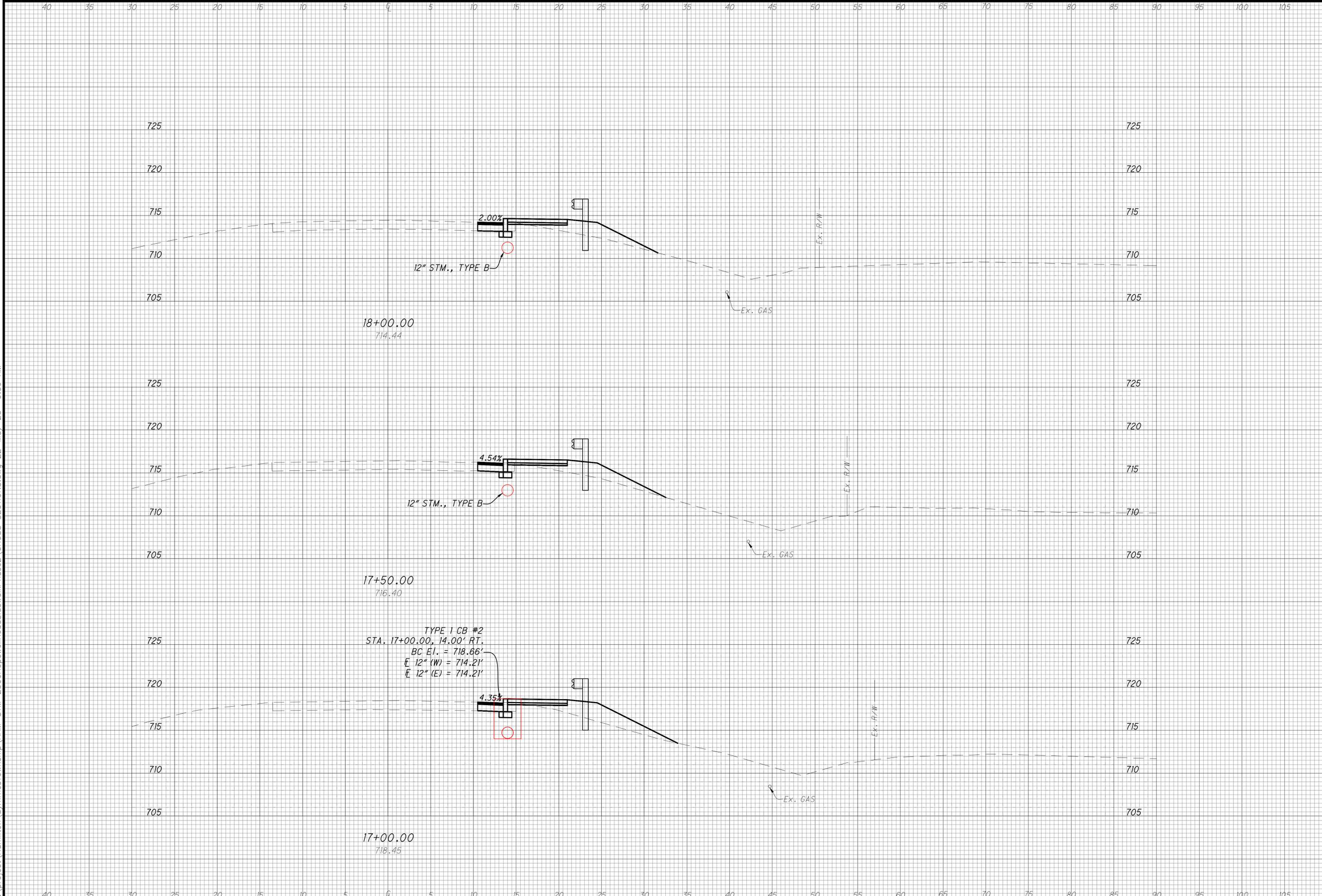
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**HOPEWELL ROAD SIDEWALK, PHASE 2**  
**SYMMES TOWNSHIP**  
**HOPEWELL ROAD C.S. STA. 15+50 TO STA. 16+50**

REVISIONS:

FILE NAME	CROSS SECTIONS
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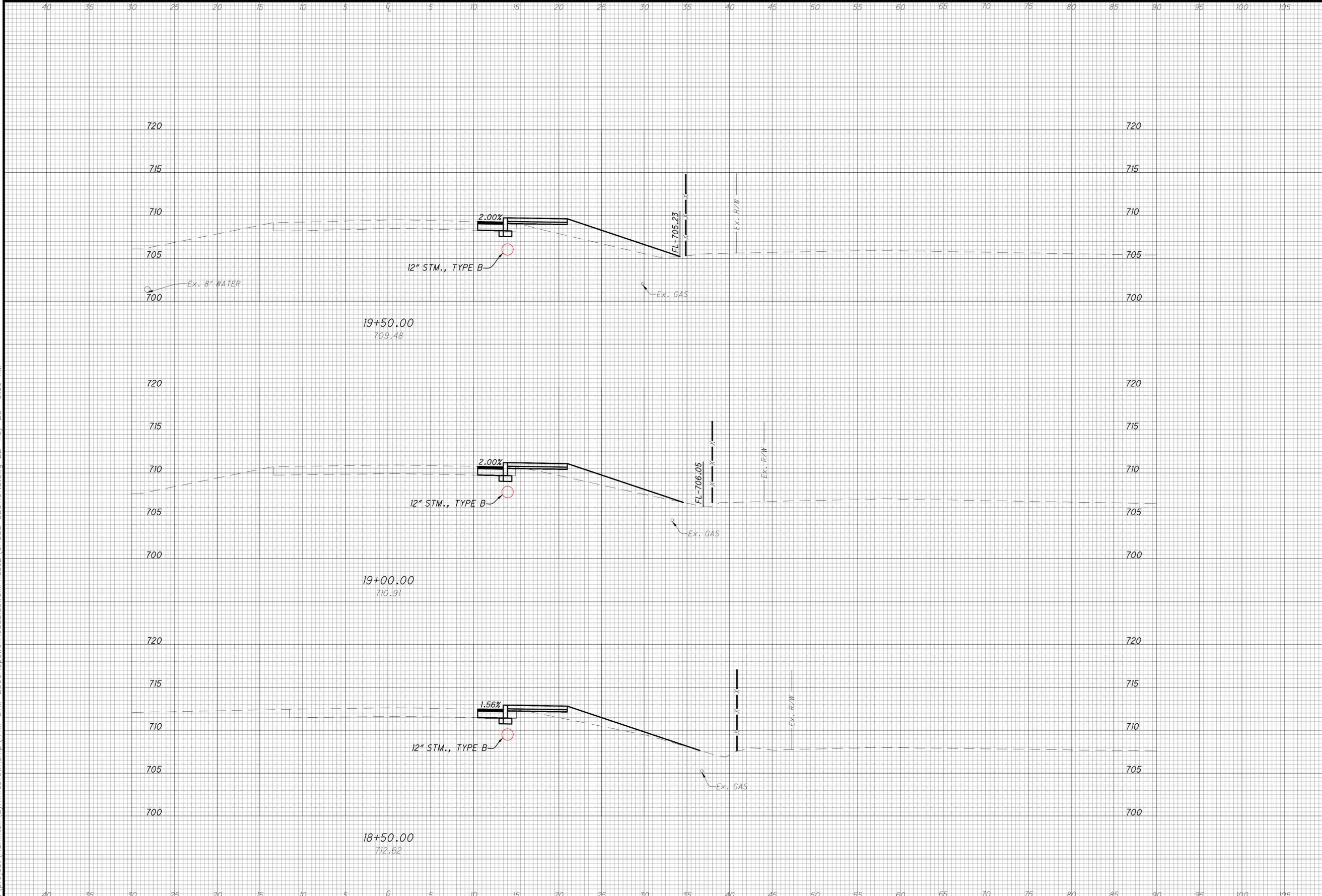
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**HOPEWELL ROAD SIDEWALK, PHASE 2**  
**SYMMES TOWNSHIP**  
**HOPEWELL ROAD C.S. STA. 17+00 TO STA. 18+00**

REVISIONS:

FILE NAME	CROSS SECTIONS
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**HOPEWELL ROAD SIDEWALK, PHASE 2**  
**SYMMES TOWNSHIP**  
**HOPEWELL ROAD C.S. STA. 18+50 TO STA. 19+50**

REVISIONS:

FILE NAME	CROSS SECTIONS
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PROJECT No.	HAMS2306
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SHEET NUMBER	20 OF 26

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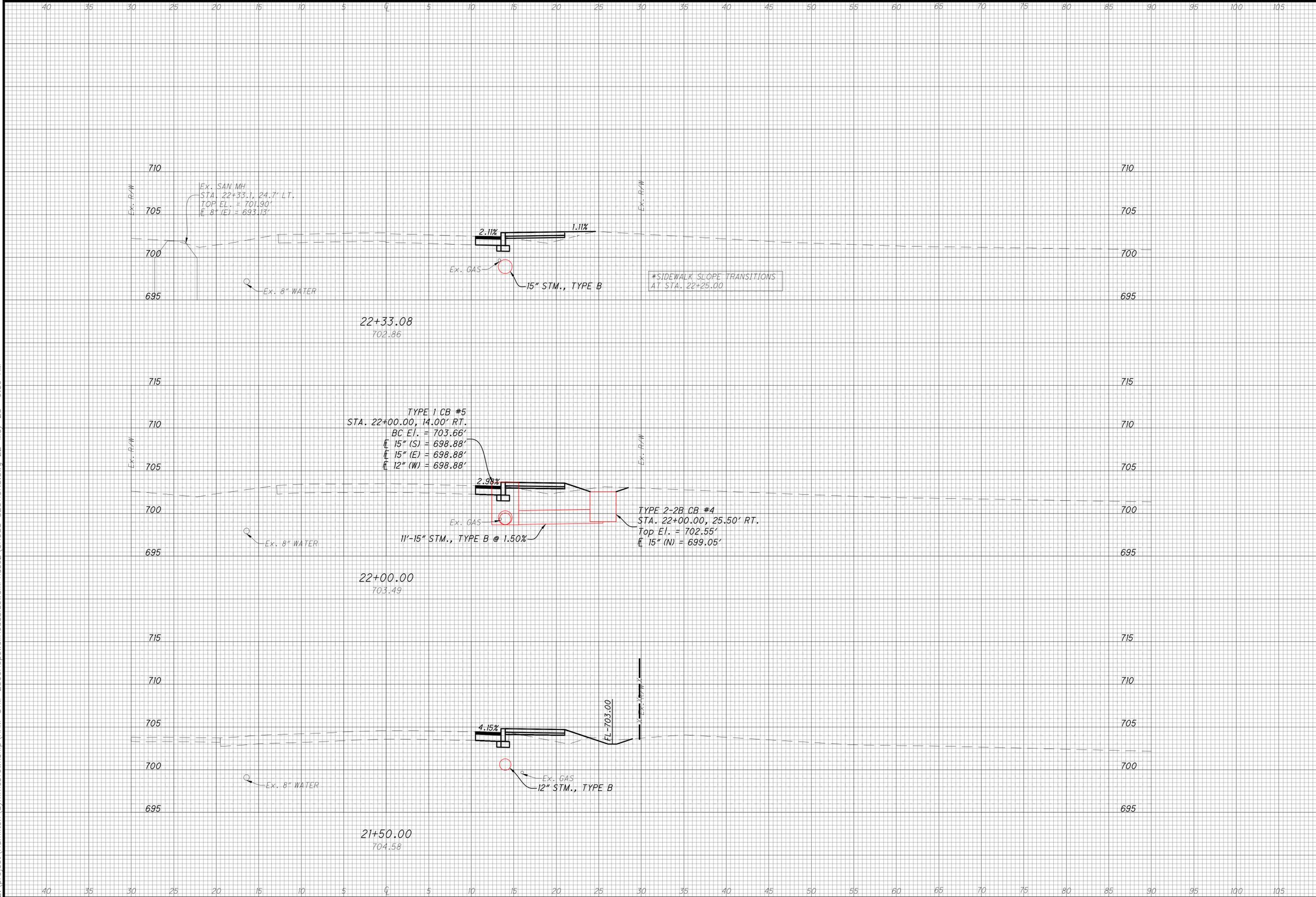


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**HOPEWELL ROAD SIDEWALK, PHASE 2**  
**SYMMES TOWNSHIP**  
**HOPEWELL ROAD C.S. STA. 20+00 TO STA. 21+00**

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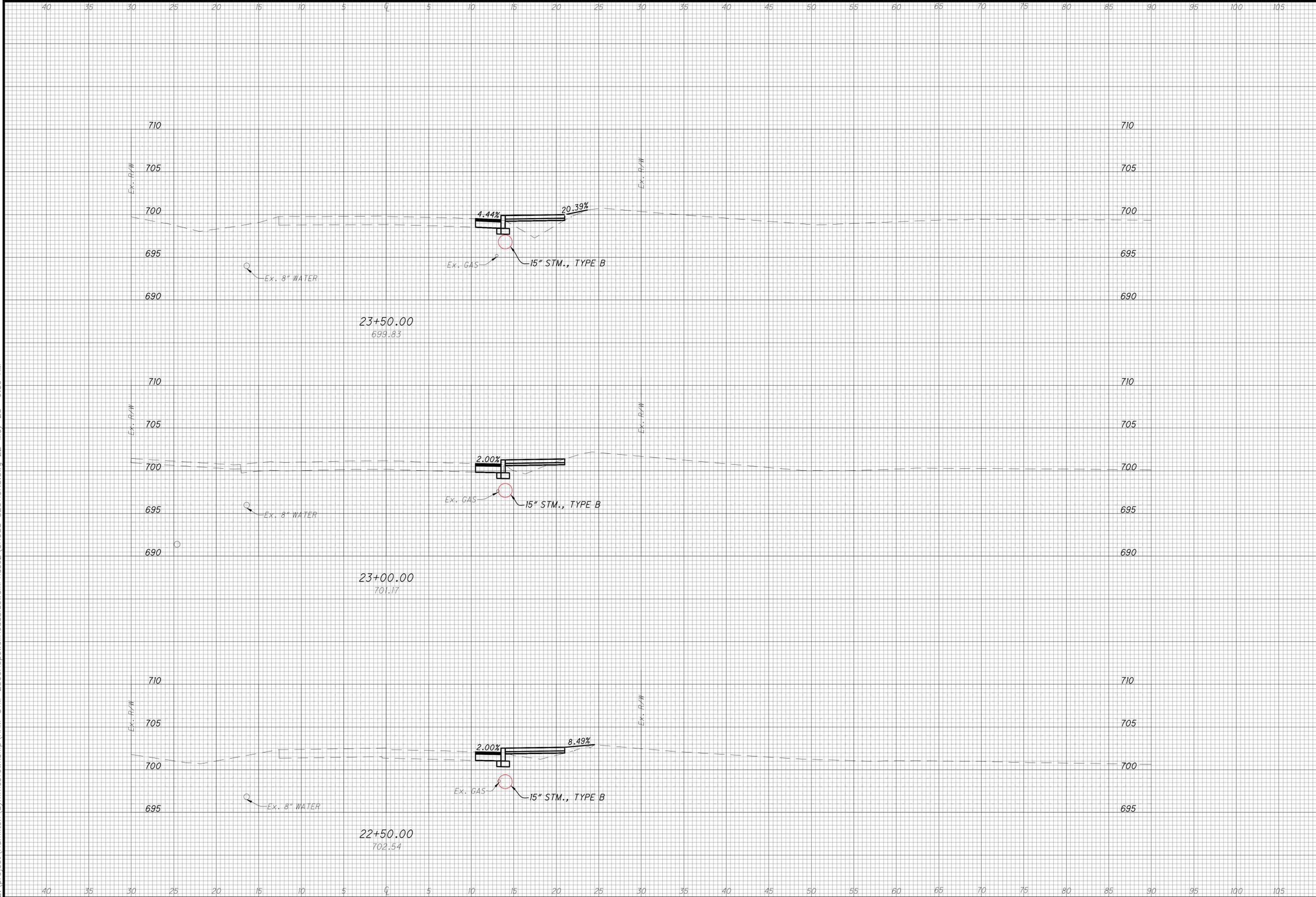


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**HOPEWELL ROAD SIDEWALK, PHASE 2**  
**SYMMES TOWNSHIP**  
**HOPEWELL ROAD C.S. STA. 21+50 TO STA. 22+33.08**

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SHEET NUMBER 22 OF 26

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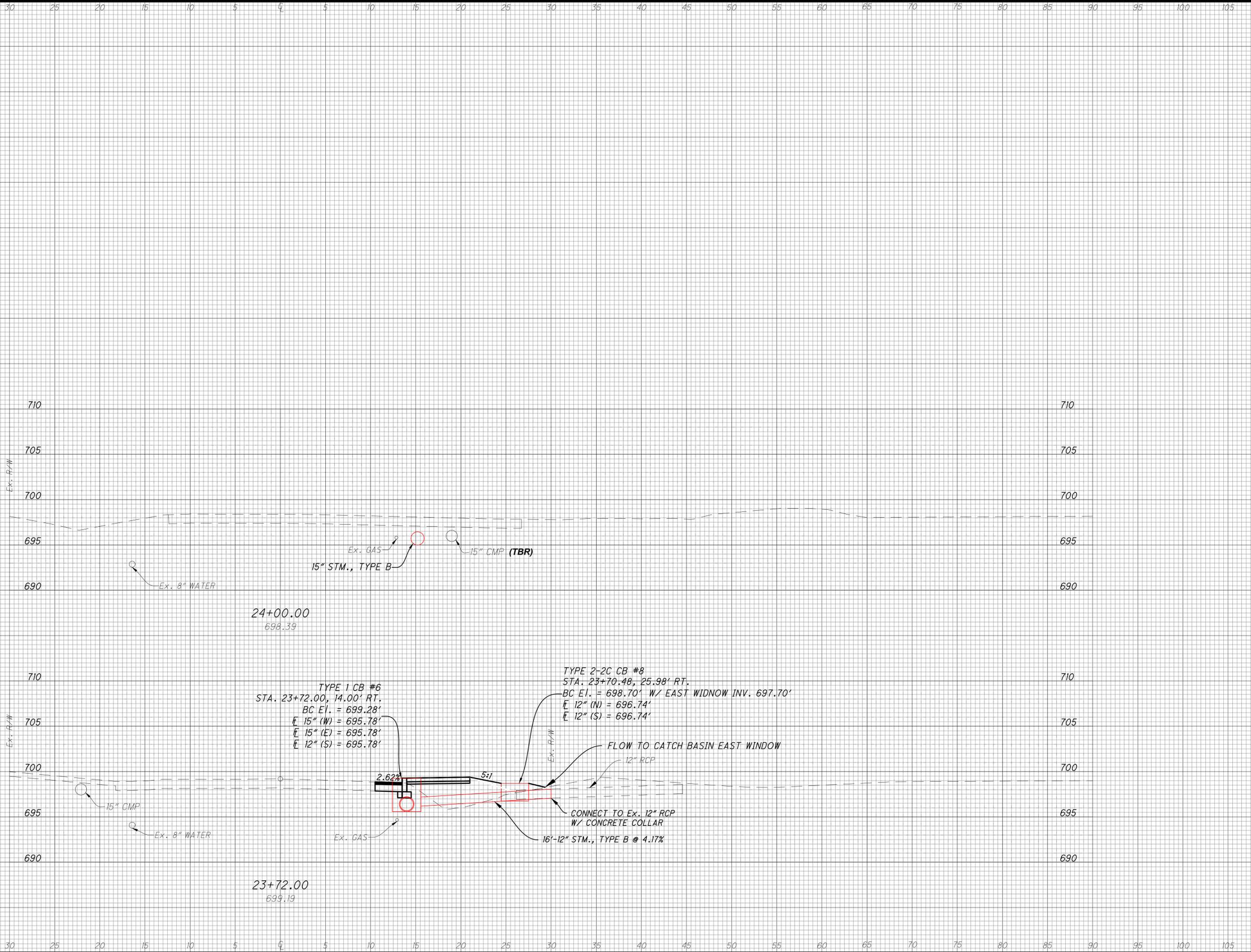
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**HOPEWELL ROAD SIDEWALK, PHASE 2**  
**SYMMES TOWNSHIP**  
**HOPEWELL ROAD C.S. STA. 22+50 TO STA. 23+50**

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FILE NAME	CROSS SECTIONS
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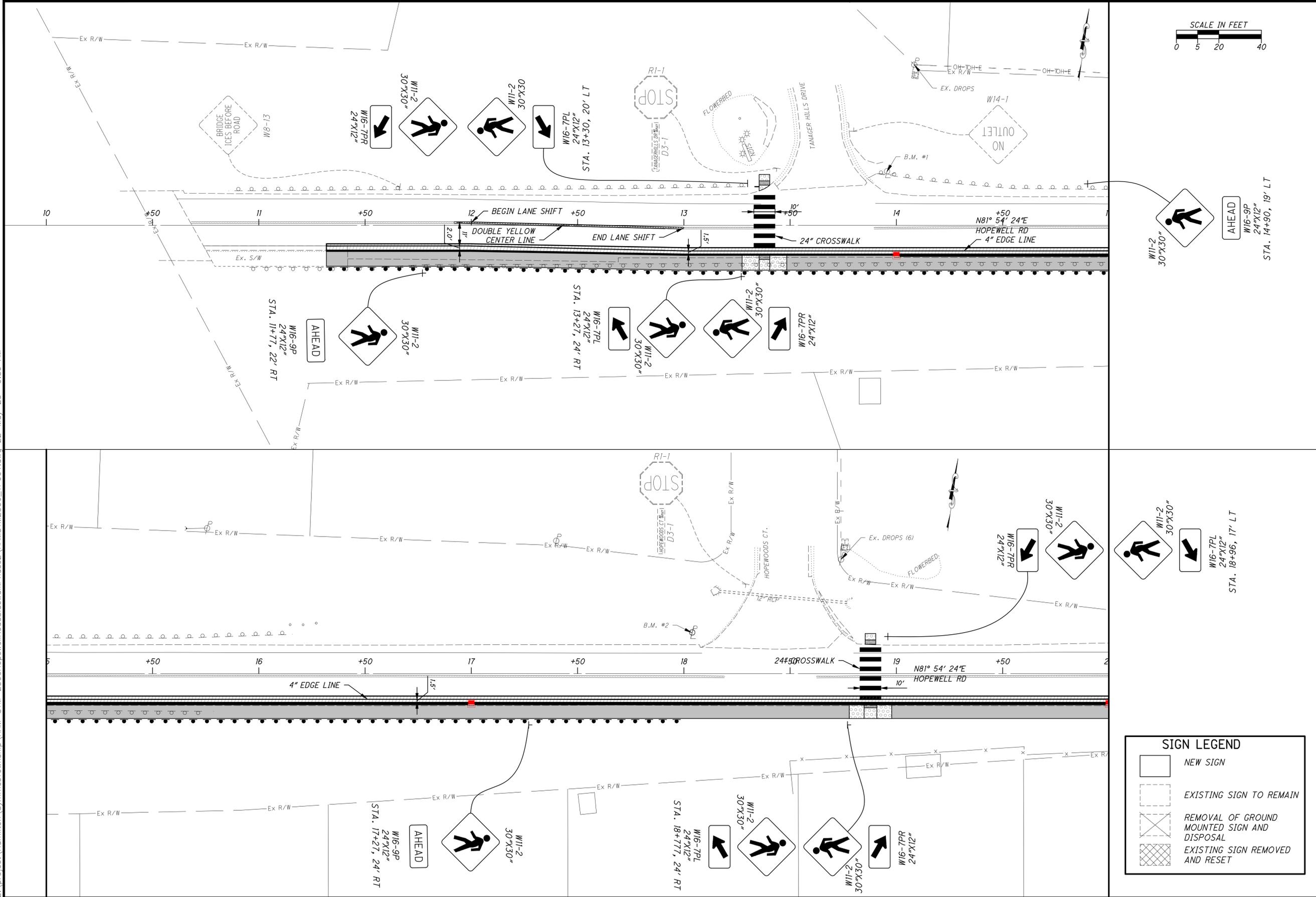
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**HOPEWELL ROAD SIDEWALK, PHASE 2**  
**SYMMES TOWNSHIP**  
**HOPEWELL ROAD C.S. STA. 23+72 TO STA. 24+00**

REVISIONS:

FILE NAME	CROSS SECTIONS
DRAWN BY	IJW
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PROJECT No.	HAMSYM2306
DATE	05-22-2025
SHEET NUMBER	24 OF 26

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SIGN LEGEND	
	NEW SIGN
	EXISTING SIGN TO REMAIN
	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL
	EXISTING SIGN REMOVED AND RESET

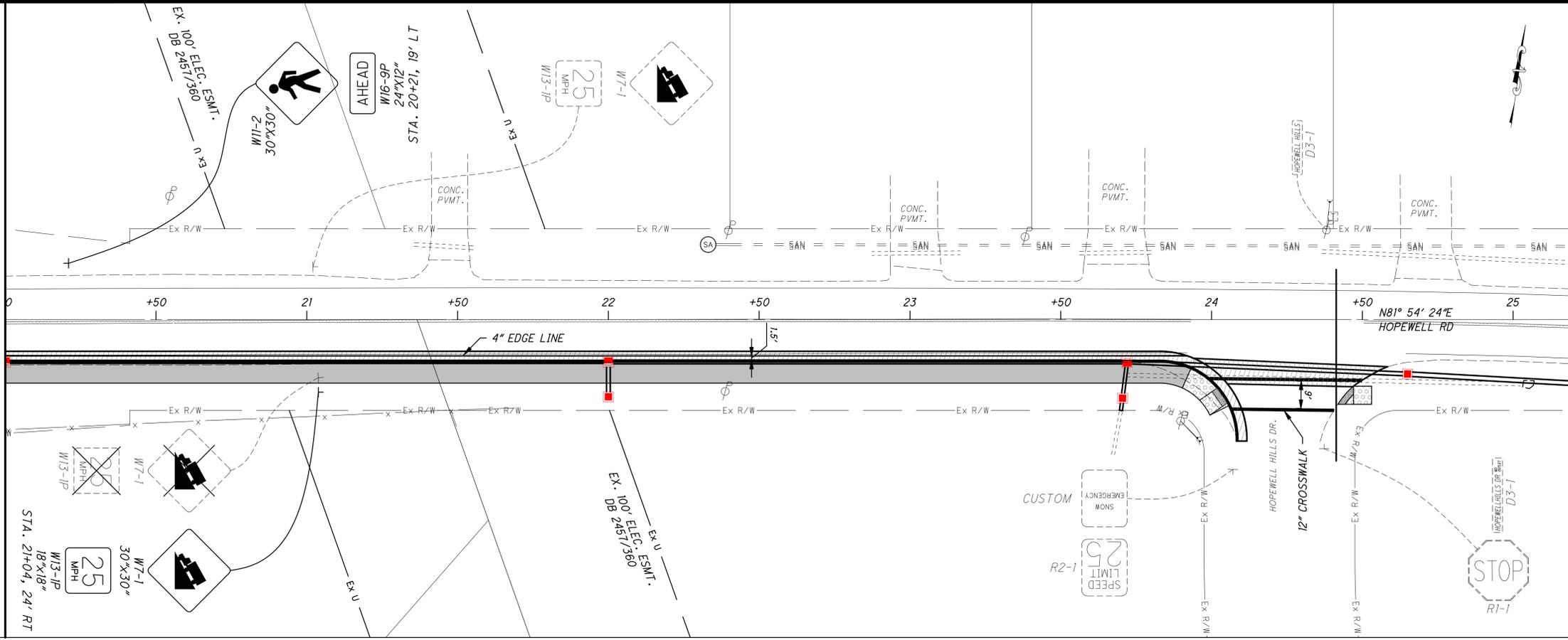


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**HOPEWELL ROAD SIDEWALK, PHASE 2**  
**SYMMES TOWNSHIP**  
TP001

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FILE NAME	TP001
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PROJECT No.	HAMSYM2306
DATE	05-22-2025
SHEET NUMBER	25 OF 26

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SIGN LEGEND	
	NEW SIGN
	EXISTING SIGN TO REMAIN
	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL
	EXISTING SIGN REMOVED AND RESET



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**HOPEWELL ROAD SIDEWALK, PHASE 2**  
**SYMMES TOWNSHIP**  
**TP002**

REVISIONS:

FILE NAME	TP001
DRAWN BY	IJW
CHECKED BY	TAN
PROJECT No.	HAMSYM2306
DATE	05-22-2025
SHEET NUMBER	26 OF 26