

06-15-2018 LETTING ITEM 102

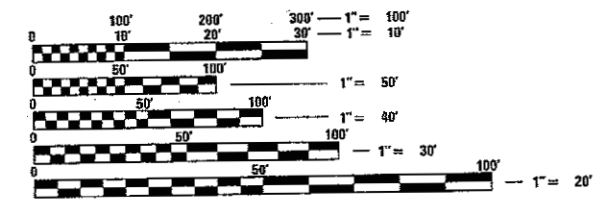
FOR INDEX OF SHEETS, SEE SHEET NO. 2

**DESIGN DESIGNATION:**

**POSTED SPEED**  
 US ROUTE 20: 45 MPH  
 HARMONY RD: 55 MPH

**ADT (YEAR)**  
 US ROUTE 20: 9,700 (2017)  
 HARMONY RD: 2,700 (2017)

**PROJECT LOCATED IN UNINCORPORATED CORAL TOWNSHIP**



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
 1-800-892-0123  
 OR 811

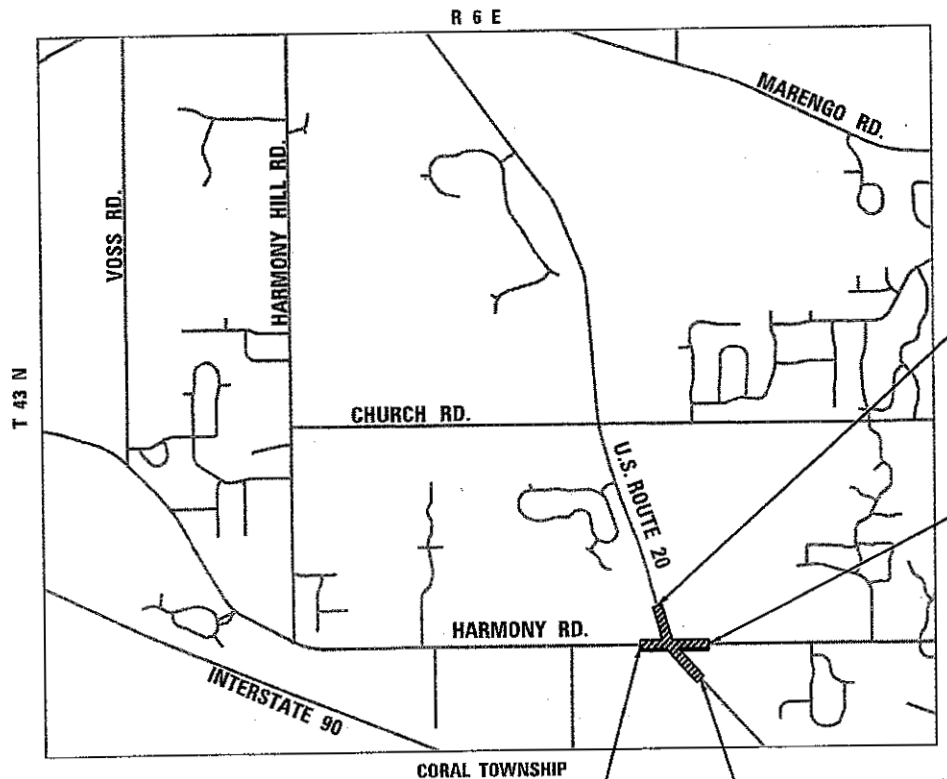
PROJECT ENGINEER: BEN HARTMAN 815-759-8326  
 PROJECT MANAGER: DANIEL WILGREEN 847-705-4240

CONTRACT NO. 60T01

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**PROPOSED  
 HIGHWAY PLANS**

FAP 525 (US ROUTE 20)  
 AT FAS 1019 (HARMONY ROAD)  
 SECTION: 11-N  
 PROJECT: HSIP-CSVN(310)  
 INTERSECTION RECONSTRUCTION  
 MCHENRY COUNTY  
 C-91-274-12



PROJECT BEGINS  
 HARMONY RD.  
 STA. 191 + 97.37

PROJECT BEGINS  
 US ROUTE 20  
 STA. 491 + 50.00

PROJECT ENDS  
 US ROUTE 20  
 STA. 510 + 43.00

PROJECT ENDS  
 HARMONY RD.  
 STA. 209 + 96.09

GROSS LENGTH OF PROJECT=NET LENGTH OF PROJECT=3,691.72 FEET=0.699 MILE

\* 135 + 1 = 136 TOTAL SHEETS

| F.A.P. RTE.                   | SECTION | COUNTY  | TOTAL SHEETS       | SHEET NO. |
|-------------------------------|---------|---------|--------------------|-----------|
| 525                           | 11-N    | MCHENRY | 135                | 1         |
| FED. ROAD DIST. NO 1 ILLINOIS |         |         | CONTRACT NO. 60T01 |           |

D-91-274-12



LOCATION OF SECTION INDICATED THUS: -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUBMITTED March 22 2018  
Ben Hartman REGIONAL ENGINEER  
May 11 2018  
Ben Hartman ENGINEER OF DESIGN AND ENVIRONMENT  
May 18 2018  
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 3

PROFESSIONAL ENGINEER'S SIGN & SEAL

Ben Hartman  
 BENJAMIN D. HARTMAN, P.E.  
 EXPIRES: 11-30-19

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 OF THE STATE OF ILLINOIS**

**INDEX OF SHEETS**

|         |  |
|---------|--|
| 1       | TITLE SHEET  |
| 2-3     | INDEX OF SHEETS, LIST OF STATE STANDARDS, AND GENERAL NOTES  |
| 4-6     | SUMMARY OF QUANTITIES  |
| 7-12    | TYPICAL SECTIONS   |
| 13-15   | SCHEDULE OF QUANTITIES   |
| 16-19   | ALIGNMENT, TIES AND BENCHMARKS   |
| 20-21   | REMOVAL PLANS  |
| 22-31   | ROADWAY PLAN AND PROFILES  |
| 32-44   | SUGGESTED MAINTENANCE OF TRAFFIC PLANS   |
| 45-55   | EROSION CONTROL PLANS  |
| 56-60   | DRAINAGE AND UTILITY PLAN AND PROFILES   |
| 61-65   | PLAT OF HIGHWAYS   |
| 66      | INTERSECTION GRADING PLAN  |
| 67      | PAVEMENT JOINTING DETAILS  |
| 68-70   | PAVEMENT MARKING AND SIGNING PLANS   |
| 71-72   | LANDSCAPING PLANS  |
| 73-81   | STREET LIGHTING PLANS  |
| 82-83   | SPLITTER ISLAND DETAILS  |
| 84-87   | SIDEWALK RAMP DETAILS  |
| 88-91   | RETAINING WALL PLANS   |
| 92      | DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5m) (BD 01) |
| 93      | MANHOLE WITH RESTRICTOR PLATE (BD 12)  |
| 94      | PAVEMENT PATCHING FOR HMA SURFACE PAVEMENT (BD 22)   |
| 95      | BUTT JOINT AND HMA TAPER DETAILS (BD 32)   |
| 95A     | DETAIL OF VARIOUS TYPES OF LANE REDUCTION FOR PCC PAVEMENT   |
| 96      | TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS (TC 10)                   |
| 97      | DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC 13)   |
| 98      | TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC 14)                      |
| 99      | PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING (TC 16)                                     |
| 100     | ARTERIAL ROAD INFORMATION SIGN (TC 22)   |
| 101-135 | CROSS SECTIONS - US ROUTE 20 AT HARMONY ROAD   |

**LIST OF STATE STANDARDS**

| STANDARD NO. | DESCRIPTION   |
|--------------|---|
| 000001-06    | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS  |
| 482001-02    | HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT  |
| 482011-03    | HMA SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS |
| 483001-05    | PCC SHOULDER  |
| 542001-06    | CONCRETE END SECTIONS FOR PIPE CULVERTS 15" (375 mm) THRU 84" (2100 mm) DIAMETER    |
| 542301-03    | PRECAST REINFORCED CONCRETE FLARED END SECTION                                      |
| 601001-05    | PIPE UNDERDRAINS  |
| 601101-02    | CONCRETE HEADWALL FOR PIPE UNDERDRAINS  |
| 602001-02    | CATCH BASIN, TYPE A   |
| 602401-04    | MANHOLE, TYPE A   |
| 602701-02    | MANHOLE STEPS   |
| 604001-04    | FRAME AND LIDS, TYPE 1  |
| 604036-03    | GRATE, TYPE 8   |
| 604091-03    | FRAME AND GRATE, TYPE 24  |
| 606001-07    | CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER                       |
| 701006-05    | OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE         |
| 701011-04    | OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY  |
| 701301-04    | LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS   |
| 701311-03    | LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY                                    |
| 701336-06    | LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS >= 45 MPH                    |
| 701501-06    | URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED   |
| 701701-10    | URBAN LANE CLOSURE, MULTILANE INTERSECTION  |
| 701901-07    | TRAFFIC CONTROL DEVICES   |
| 704001-08    | TEMPORARY CONCRETE BARRIER  |
| 720001-01    | SIGN PANEL MOUNTING DETAILS   |
| 720006-04    | SIGN PANEL ERECTION DETAILS   |
| 720011-01    | METAL POSTS FOR SIGNS, MARKERS & DELINEATORS  |
| 720016-04    | MAST ARM MOUNTED STREET NAME SIGNS  |
| 805001-01    | ELECTRICAL SERVICE INSTALLATION DETAILS   |
| 814001-03    | HANDHOLES   |
| 814006-02    | DOUBLE HANDHOLES  |
| 838001-01    | BREAKAWAY DEVICES   |
| 878001-10    | CONCRETE FOUNDATION DETAILS   |
| 782006       | GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS                               |

**GENERAL NOTES**

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION) AT 8-1-1 OR (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES (48 HOUR NOTIFICATION IS REQUIRED).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL UTILITY EQUIPMENT. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS F UTILITY RELOCATION, ADJUSTMENT, OR PROTECTION IS NECESSARY.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND MCHENRY COUNTY.
- THE LOCATION OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, WATER MAINS, SANITARY SEWERS, AND ANY OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE AND THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MIGHT NOT BE SHOWN ON THE PLANS. ANY UTILITY PROPERTY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS PRIOR TO BIDDING ON THE PROJECT.
- THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS, PROPERTY CORNERS, AND REFERENCE MARKERS UNTIL THE OWNER, HIS AGENT, OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.
- WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- SAW CUTTING OF PAVEMENTS, SIDEWALK, CURB & GUTTER, ETC. SHALL BE TO FULL DEPTH AND SHALL RESULT IN A CLEAN STRAIGHT EDGE ON THE PORTION REMAINING. ALL SAW CUTTING SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEM REMOVED.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- THE CONTRACTOR SHALL USE CARE IN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
- WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1.5 INCHES (40mm) WHERE THE SPEED LIMIT IS 40 MPH OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH. WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF MILLING IS SLOPED A MINIMUM OF 1:3 (V:H).
- UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURE AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS, OVERNIGHT CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING.
- TYPE III TAPE SHALL BE USED AS SHORT TERM PAVEMENT MARKING AND TEMPORARY PAVEMENT MARKING ON ALL FINAL SURFACES. THIS WORK SHALL BE PAID FOR AS PAVEMENT MARKING TAPE TYPE III, OF THE SIZE REQUIRED.
- THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- MATCH EXISTING PAVEMENT MARKINGS AT THE PROJECT LIMITS.
- ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
- EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
- ALL RADII FOR PROPOSED CURB AND GUTTER ARE TO THE EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED. CURB AND GUTTER ELEVATIONS SHOWN ALONG RETURNS AND AT POINTS OF CURVATURE, ETC. ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- OFFSET LOCATIONS GIVEN IN THE PLANS FOR STRUCTURES, EDGE OF PAVEMENT, ETC. ARE FROM THE ROADWAY CENTERLINE.
- DRIVEWAY OFFSETS ARE TO BE CONSTRUCTED TO THE R.O.W. OR EASEMENT UNLESS OTHERWISE NOTED.
- REMOVAL OF EXISTING COMBINATION CURB AND GUTTER, REGARDLESS OF CURB AND GUTTER TYPE, SHALL BE PAID FOR AS "COMBINATION CURB AND GUTTER REMOVAL".
- THE ELEVATIONS SHOWN ON THE PLANS ARE FINISHED GRADES OF PROPOSED PAVEMENT, UNLESS OTHERWISE NOTED.
- THE THICKNESSES OF HOT MIX ASPHALT MIXTURES SHOWN IN THE PLANS ARE NOMINAL. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE SURFACES OR BASES ON WHICH THE HOT MIX ASPHALT MIXTURES ARE TO BE PLACED.
- WHERE NEW WORK MEETS EXISTING FEATURES TO REMAIN, FIELD CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH CONSTRUCTION, NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- THE CONTRACTOR WILL BE REQUIRED TO TEMPORARILY RESET ALL EXISTING MAILBOXES WHICH INTERFERE WITH CONSTRUCTION OPERATIONS AND AFTER COMPLETION OF ROADWAY CONSTRUCTIONS, TO SET THEM IN THEIR PERMANENT LOCATIONS PER UNITED STATES POST OFFICE REQUIREMENTS. THIS WORK SHALL BE DONE IN CONFORMANCE WITH ARTICLE 107.20 OF THE STANDARD SPECIFICATIONS, AND THE COST WILL BE CONSIDERED INCLUDED IN THE CONTRACT.

COMPANY NAME: #COMPANY NAME#  
 PROJECT CONTACT: #PROJECT CONTACT#  
 DATE PLOTTED: 5/7/2018 4:15:08 PM  
 FILE NAME: D:\6701-sht-gen-01.dgn  
 PLOT DRIVER: ILpdf.plt  
 PEN TABLE: plottbl.tbl



|                                    |                |              |        |
|------------------------------------|----------------|--------------|--------|
| USER NAME = bhartha                | DESIGNED - BH  | REVISED - BH | 5/7/18 |
| FILE NAME = D:\6701-sht-gen-01.dgn | DRAWN - DMS    | REVISED -    |        |
| PLOT SCALE = NTS                   | CHECKED -      | REVISED -    |        |
| PLOT DATE = 5/7/2018               | DATE - 3/29/18 | REVISED -    |        |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS & STATE STANDARDS**

|            |                         |              |                     |                           |
|------------|-------------------------|--------------|---------------------|---------------------------|
| SCALE: NTS | SHEET NO. 1 OF 2 SHEETS | STA. TO STA. | FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT |
|------------|-------------------------|--------------|---------------------|---------------------------|

| F.A.P. RTE.        | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
|--------------------|---------|---------|--------------|-----------|
| 525                | 11-N    | MCHENRY | 135          | 2         |
| CONTRACT NO. 60T01 |         |         |              |           |

**GENERAL NOTES CONT.**

- THE INDISCRIMINATE USE OF FIRE HYDRANTS OR EXISTING STREAMS, CREEKS, WETLANDS OR PONDS IS STRICTLY PROHIBITED. THE CONTRACTOR SHALL PROVIDE A WATER TRUCK AND DRIVER AS REQUIRED TO OBTAIN AND TRANSPORT THIS WATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING WATER FROM AN APPROVED SOURCE. IF THIS WATER IS FROM A SOURCE OTHER THAN HIS YARD, WRITTEN APPROVAL FROM THE AGENCY HAVING JURISDICTION FOR THE SOURCE OF THE WATER MUST BE RECEIVED BY THE ENGINEER PRIOR TO USE OF THE WATER.

**STORM SEWERS, WATER MAINS, AND UTILITIES**

- ALL UTILITY COMPANIES SHALL BE NOTIFIED AT LEAST 3 DAYS PRIOR TO THE START OF CONSTRUCTION.
- ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.
- WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN, IN AN OPERATING CONDITION, TEMPORARY OUTLETS AND CONNECTIONS FOR ALL DRAINS, SEWERS, AND CATCH BASINS. THE CONTRACTOR SHALL PROVIDE FACILITIES WHICH HAVE THE CAPACITY TO RECEIVE AND DISCHARGE THE STORM WATER FLOW RATES NORMALLY ACCEPTED AND RELEASED BY THE EXISTING DRAINAGE FACILITIES. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.
- FRAME ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL NEW, ADJUSTED OR RECONSTRUCTED STRUCTURES WILL BE ADJUSTED TO THE FINAL ELEVATION OF THE AREA IN WHICH THEY ARE LOCATED AS PART OF THE STRUCTURE, ADJUSTMENT OR RECONSTRUCTION COST.
- ONLY PRECAST CONCRETE ADJUSTMENT RINGS, MAXIMUM OF 12" IN HEIGHT, WILL BE ALLOWED IN THE ADJUSTMENT OR RECONSTRUCTION OF CATCH BASIN, MANHOLE, INLET AND VALVE VAULT STRUCTURES. THE RINGS SHALL BE INCLUDED IN THE COST OF WORK BEING PERFORMED.

**BACKFILL**

- FOR STORM SEWER CONSTRUCTED UNDER THE ROADWAY, BACKFILLING METHODS TWO AND THREE AUTHORIZED UNDER THE PROVISIONS OF ARTICLE 550.07 OF THE STANDARD SPECIFICATIONS WILL NOT BE ALLOWED.
- PROVIDE TRENCH BACKFILL FOR ALL UTILITY LINES WITHIN 2' OF PAVED AREAS. ALL TRENCH BACKFILL QUANTITIES FOR STORM SEWER HAVE BEEN COMPUTED AND SHALL BE PAID FOR IN ACCORDANCE WITH THE STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS BUREAU OF CONSTRUCTION TRENCH BACKFILL TABLE, BASED ON PIPE SIZE AND INVERT DEPTH FROM SUBGRADE.
- THE PAY ITEM FOR STORM SEWER REMOVAL SHALL INCLUDE ANY TRENCH BACKFILL REQUIRED TO FILL AREA OF SEWER REMOVAL WHERE THERE IS NO REPLACEMENT. IF PROPOSED STORM SEWER IS REPLACED IN THE SAME TRENCH, THEN TRENCH BACKFILL SHALL BE PAID FOR SEPARATELY.

**SIGNING AND STRIPING**

- SEE DISTRICT ONE DETAIL AND PLAN SHEETS FOR PAVEMENT MARKING DETAILS.
- SIGNS SHALL NOT BE MOVED OR COVERED UNTIL PROGRESS OF WORK NECESSITATES IT.
- THE CONTRACTOR WILL BE REQUIRED TO TEMPORARILY RESET ALL SUCH SIGNS THAT INTERFERE WITH HIS CONSTRUCTION OPERATIONS. ALL SUCH SIGNS MUST BE MAINTAINED STRAIGHT AND CLEAN FOR THE DURATION OF THE TEMPORARY SETTING AND MUST BE RE-ERECTED AT A TEMPORARY LOCATION IN A WORKMANLIKE MANNER AND BE VISIBLE TO THE TRAFFIC FOR WHICH IT IS INTENDED. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.
- LONGER POSTS MAY BE REQUIRED AT SOME TEMPORARY OR PERMANENT SIGN LOCATIONS TO MAINTAIN PROPER SIGN ELEVATIONS. THIS WORK SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 729 OF THE STANDARD SPECIFICATIONS AND INCLUDED IN THE UNIT COST OF METAL POST - TYPE B.
- TWO WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS, THE ENGINEER SHALL CONTACT MR. WALTER CZARNY, AREA TRAFFIC FIELD ENGINEER, AT WALTER.CZARNY@ILLINOIS.GOV.

**EROSION CONTROL PLANS**

- SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. AREAS OF THE SITE THAT ARE NOT TO BE GRADED SHALL BE PROTECTED FROM CONSTRUCTION TRAFFIC OR OTHER DISTURBANCE UNTIL FINAL SEEDING IS PERFORMED.
- PROPERTIES AND CHANNELS ADJOINING THE SITE SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION.
- SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
- DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN ONE (1) CALENDAR DAY FOLLOWING THE END OF ACTIVE HYDROLOGIC DISTURBANCE.
- ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
- IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G. SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURE).
- ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS SHALL BE PERMANENTLY STABILIZED.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE RECEPTACLES FOR THE DEPOSITION OF ALL CONSTRUCTION MATERIAL DEBRIS GENERATED DURING THE DEVELOPMENT PROCESS. THE CONTRACTOR SHALL NOT CAUSE OR PERMIT DUMPING, DEPOSITING, DROPPING, THROWING, DISCARDING OR LEAVING OF CONSTRUCTION MATERIAL DEBRIS UPON OR INTO THE CONSTRUCTION SITE, CHANNEL, WATERS OF THE UNITED STATES. THE CONTRACTOR SHALL MAINTAIN THE CONSTRUCTION SITE FREE OF CONSTRUCTION MATERIAL DEBRIS.

**GENERAL NOTES CONT.**

- ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN AN EFFECTIVE WORKING CONDITION.
- PERMANENT EROSION CONTROL SHALL INCLUDE TOPSOIL EXCAVATION AND PLACEMENT, TOPSOIL FURNISH AND PLACE, 4" AND SEEDING, CLASS 2A TO BE PROVIDED IN ACCORDANCE WITH ARTICLE 250 OF THE STANDARD SPECIFICATIONS.
- ALL ESC MEASURES WILL BE MAINTAINED IN ACCORDANCE WITH THE IDOT EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION AND IDOT'S BEST MANAGEMENT PRACTICES - MAINTENANCE GUIDE: (HTTP://WWW.IDOT.ILLINOIS.GOV/TRANSPORTATION-SYSTEM/ENVIRONMENT/EROSION-AND-SEDIMENT-CONTROL).
- THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION CONTROL DURING CONSTRUCTION.
- THE CONTRACTOR SHALL CHECK ALL ESC MEASURES WEEKLY AND AFTER EACH RAINFALL, 0.5 INCHES OR GREATER IN A 24-HOUR PERIOD, OR EQUIVALENT SNOWFALL, ADDITIONALLY DURING WINTER MONTHS, ALL MEASURES SHOULD BE CHECKED BY THE CONTRACTOR AFTER EACH SIGNIFICANT SNOWMELT.
- THE CONTRACTOR SHOULD PROVIDE TO THE RESIDENT ENGINEER A PLAN TO ENSURE THAT A STABILIZED FLOW LINE WILL BE PROVIDED DURING STORM SEWER CONSTRUCTION. THE USE OF A STABILIZED FLOW LINE BETWEEN INSTALLED STORM SEWER AND OPEN DISTURBANCE WILL REDUCE THE POTENTIAL FOR THE OFFSITE DISCHARGE OF SEDIMENT-BEARING WATERS, ESPECIALLY WHEN RAIN IS FORECASTED, SO THAT FLOW WILL NOT ERODE. LACK OF APPROVED PLAN OR FAILURE TO COMPLY WILL RESULT IN AN EROSION AND SEDIMENT CONTROL.
- ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER, SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCIDENTAL.
- TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED IMMEDIATELY UPON COMPLETION OF DISTURBANCE OR IF THE WORK AREA IS TO BE LEFT UNDISTURBED FOR 14 DAYS OR MORE.
- UNDER NO CIRCUMSTANCE SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDING AT ONE TIME.
- EROSION CONTROL ITEMS ARE CONSIDERED TO BE A HIGH PRIORITY ON THIS CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE RESIDENT ENGINEER.
- "WETLAND NO INTRUSION" SIGNAGE SHOULD ALSO BE PROVIDED AT THE BOUNDARY OF ALL UN-IMPACTED WETLANDS. THE CONTRACTOR CAN BORROW THE SIGNS FROM THE BUREAU OF MAINTENANCE. INCLUDE TEMPORARY FENCING AND WETLAND SIGNAGE WITHIN THE EROSION AND SEDIMENT CONTROL STRATEGY.
- THIS PROJECT REQUIRES A US ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE DEPARTMENT. ALL CONDITIONS OF THE 404 PERMIT, FOUND IN THE SPECIAL PROVISIONS, MUST BE FOLLOWED. AS A CONDITION OF THIS PERMIT, THE CONTRACTOR WILL NEED TO SUBMIT AN IN-STREAM WORK PLAN (INCLUDING WORK WITHIN WETLANDS) TO THE DEPARTMENT FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES (INCLUDING WORK WITHIN WETLANDS) CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-STREAM WORK. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT AN IN-STREAM WORK PLAN (INCLUDING WORK WITHIN WETLANDS) WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE DEPARTMENT HAS NOT OBTAINED ANY PERMITS FOR OFFSITE BORROW, WASTE, USE (BWU) AREAS. PRIOR TO WORKING IN BWU AREAS, IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING PERMITS IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER PERMITS. IN ADDITION TO THE BORROW REVIEW (BDE 2289) AND USE/WASTE REVIEW (BDE 2290) SUBMITTALS, THE CONTRACTOR SHALL SUBMIT AND EROSION AND SEDIMENT CONTROL (ESC) PLAN FOR EVERY BWU SITE TO THE DEPARTMENT FOR ACCEPTANCE. GUIDELINES FOR ACCEPTABLE BWU PRACTICES CAN BE FOUND IN SECTION II.G.1 AND 2 OF THE SWPPP. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT ESC PLANS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

**EARTHWORK**

- SUBGRADE SHALL BE PREPARED IN ACCORDANCE WITH ARTICLE 301.04 OF THE STANDARD SPECIFICATIONS BEFORE REMOVAL OF ANY UNSTABLE MATERIAL.
- THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM-AXLE TRUCK.
- PIPE UNDERDRAINS TYPE 2 SHALL BE INSTALLED ACCORDING TO SECTION 601 OF THE STANDARD SPECIFICATIONS AND HIGHWAY STANDARD 60100L TOP OF PIPE UNDERDRAINS SHALL BE PLACED MINIMUM 6" BELOW THE BOTTOM OF AGGREGATE SUBGRADE IMPROVEMENT WHEN POSSIBLE. THE COST OF MAKING PIPE UNDERDRAINS CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE PIPE UNDERDRAINS.
- AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH AGGREGATE SUBGRADE IMPROVEMENT WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE STANDARD SPECIFICATIONS AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.
- ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTORS VEHICLES AND/OR EQUIPMENTS IS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER AT THE CONTRACTORS EXPENSE.
- THE LOCATIONS OF PROPOSED TREES TO BE PLANTED WILL BE WITHIN THE PROJECT LIMITS AND DETERMINED BY THE RESIDENT ENGINEER.

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 PROJECT CONTACT: #PROJECT CONTACT#  
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 PEN TABLE: plot.tbl

**HRGreen**  
 HRGreen.com  
 Illinois Professional Design Firm  
 #184-001322

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| PLOT DATE = 3/29/2018               | DATE - 3/29/18 | REVISED - |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

|                      |                                      |
|----------------------|--------------------------------------|
| <b>GENERAL NOTES</b> |                                      |
| SCALE: NTS           | SHEET NO. 2 OF 2 SHEETS STA. TO STA. |

|   |         |         |              |           |
|---|---------|---------|--------------|-----------|
| F.A.P. RTE.                                   | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
| 525   | 11-N    | MCHENRY | 135          | 3         |
| CONTRACT NO. 60T01                            |         |         |              |           |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |         |         |              |           |

| PAYCODE    | ITEM DESCRIPTION                              | UNIT  | TOTAL  | URBAN                |                       |                      |
|------------|---|-------|--------|----------------------|-----------------------|----------------------|
|            |   |       |        | 90% FED<br>10% STATE | 80% FED<br>20% COUNTY | 90% FED<br>10% STATE |
|            |   |       |        | 0004<br>ROADWAY      | 0004<br>ROADWAY       | 0021<br>LIGHTING     |
| 20100110   | TREE REMOVAL (6 TO 15 UNITS DIAMETER)         | UNIT  | 1,439  | 1,439                |                       |                      |
| 20100210   | TREE REMOVAL (OVER 15 UNITS DIAMETER)         | UNIT  | 965    | 965                  |                       |                      |
| 20200100   | EARTH EXCAVATION                              | CU YD | 29,322 | 29,322               |                       |                      |
| 20700220   | POROUS GRANULAR EMBANKMENT                    | CU YD | 49.6   | 49.6                 |                       |                      |
| 20800150   | TRENCH BACKFILL                               | CU YD | 481    | 481                  |                       |                      |
| 21001000   | GEO TECHNICAL FABRIC FOR GROUND STABILIZATION | SO YD | 4,661  | 4,661                |                       |                      |
| 21101505   | TOPSOIL EXCAVATION AND PLACEMENT              | CU YD | 5,297  | 5,297                |                       |                      |
| * 25000210 | SEEDING, CLASS 2A                             | ACRE  | 6.00   | 6.00                 |                       |                      |
| * 25000312 | SEEDING, CLASS 4A                             | ACRE  | 0.50   | 0.50                 |                       |                      |
| * 25000314 | SEEDING, CLASS 4B                             | ACRE  | 0.25   | 0.25                 |                       |                      |
| * 25000400 | NITROGEN FERTILIZER NUTRIENT                  | POUND | 540    | 540                  |                       |                      |
| * 25000600 | POTASSIUM FERTILIZER NUTRIENT                 | POUND | 540    | 540                  |                       |                      |
| 25100115   | MULCH, METHOD 2                               | ACRE  | 6.75   | 6.75                 |                       |                      |
| 28000250   | TEMPORARY EROSION CONTROL SEEDING             | POUND | 600    | 600                  |                       |                      |
| 28000305   | TEMPORARY DITCH CHECKS                        | FOOT  | 300    | 300                  |                       |                      |
| 28000315   | AGGREGATE DITCH CHECKS                        | TON   | 75     | 75                   |                       |                      |
| 28000400   | PERIMETER EROSION BARRIER                     | FOOT  | 6,768  | 6,768                |                       |                      |
| 28000510   | INLET FILTERS                                 | EACH  | 15     | 15                   |                       |                      |
| 28001100   | TEMPORARY EROSION CONTROL BLANKET             | SO YD | 27,635 | 27,635               |                       |                      |
| 28100107   | STONE RIPRAP, CLASS A4                        | SO YD | 110    | 110                  |                       |                      |
| 28200200   | FILTER FABRIC                                 | SO YD | 132    | 132                  |                       |                      |
| 30300001   | AGGREGATE SUBGRADE IMPROVEMENT                | CU YD | 1,554  | 1,554                |                       |                      |
| 30300112   | AGGREGATE SUBGRADE IMPROVEMENT 12"            | SO YD | 23,413 | 23,413               |                       |                      |
| 31101400   | SUBBASE GRANULAR MATERIAL, TYPE B 6"          | SO YD | 3,555  | 3,555                |                       |                      |
| 31200500   | STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"      | SO YD | 13,977 | 13,977               |                       |                      |
| 35501308   | HOT-MIX ASPHALT BASE COURSE, 6"               | SO YD | 394    | 394                  |                       |                      |

\* SPECIALTY ITEMS

| PAYCODE  | ITEM DESCRIPTION                                    | UNIT  | TOTAL  | URBAN                |                       |                      |
|----------|---|-------|--------|----------------------|-----------------------|----------------------|
|          |   |       |        | 90% FED<br>10% STATE | 80% FED<br>20% COUNTY | 90% FED<br>10% STATE |
|          |   |       |        | 0004<br>ROADWAY      | 0004<br>ROADWAY       | 0021<br>LIGHTING     |
| 35501316 | HOT-MIX ASPHALT BASE COURSE, 8"                     | SO YD | 1,706  | 1,706                |                       |                      |
| 40600290 | BITUMINOUS MATERIALS (TACK COAT)                    | POUND | 1,545  | 1,545                |                       |                      |
| 40603080 | HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50         | TON   | 191    |                      | 191                   |                      |
| 40603335 | HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50        | TON   | 377    | 249                  | 128                   |                      |
| 40701901 | HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 11"          | SO YD | 3,753  | 3,753                |                       |                      |
| 42000501 | PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)     | SO YD | 8,435  | 8,435                |                       |                      |
| 42400200 | PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH            | SO FT | 640    |                      | 640                   |                      |
| 42400800 | DETECTABLE WARNINGS                                 | SO FT | 480    |                      | 480                   |                      |
| 44000100 | PAVEMENT REMOVAL                                    | SO YD | 15,433 | 15,433               |                       |                      |
| 44000200 | DRIVEWAY PAVEMENT REMOVAL                           | SO YD | 146    | 146                  |                       |                      |
| 44000500 | COMBINATION CURB AND GUTTER REMOVAL                 | FOOT  | 288    | 288                  |                       |                      |
| 44000600 | SIDEWALK REMOVAL                                    | SO FT | 52     | 52                   |                       |                      |
| 44001980 | CONCRETE BARRIER REMOVAL                            | FOOT  | 136    | 136                  |                       |                      |
| 44004250 | PAVED SHOULDER REMOVAL                              | SO YD | 3,210  | 3,210                |                       |                      |
| 44201769 | CLASS D PATCHES, TYPE III, 10 INCH                  | SO YD | 72     | 72                   |                       |                      |
| 48203029 | HOT-MIX ASPHALT SHOULDERS, 8"                       | SO YD | 448    | 448                  |                       |                      |
| 48203041 | HOT-MIX ASPHALT SHOULDERS, 11"                      | SO YD | 2,525  | 2,525                |                       |                      |
| 48300500 | PORTLAND CEMENT CONCRETE SHOULDERS 10"              | SO YD | 4,482  | 4,482                |                       |                      |
| 50100100 | REMOVAL OF EXISTING STRUCTURES                      | EACH  | 1      | 1                    |                       |                      |
| 50105220 | PIPE CULVERT REMOVAL                                | FOOT  | 309    | 309                  |                       |                      |
| 50300225 | CONCRETE STRUCTURES                                 | CU YD | 30.2   | 30.2                 |                       |                      |
| 50500505 | STUD SHEAR CONNECTORS                               | EACH  | 116    | 116                  |                       |                      |
| 50800205 | REINFORCEMENT BARS, EPOXY COATED                    | POUND | 4,150  | 4,150                |                       |                      |
| 52200015 | PERMANENT SHEET PILING                              | SO FT | 1,545  | 1,545                |                       |                      |
| 54213657 | PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12" | EACH  | 3      | 3                    |                       |                      |
| 54213660 | PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15" | EACH  | 8      | 8                    |                       |                      |

\* SPECIALTY ITEMS

COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen  
 CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION  
 FILE NAME: ILLDOT-18-01-001.dgn  
 PLOT DRIVER: ILLDOT-18-01-001.dgn  
 PEN TABLE: plot.tbl



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DESIGNED - BH  
 DRAWN - DMS  
 CHECKED -  
 DATE - 3/29/18

REVISED -  
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NTS SHEET NO. 1 OF 3 SHEETS STA. TO STA.

| F.A.P. RTE.         | SECTION | COUNTY  | TOTAL SHEETS              | SHEET NO. |
|---------------------|---------|---------|---------------------------|-----------|
| 525                 | 11-N    | MCHENRY | 135                       | 4         |
| FED. ROAD DIST. NO. |         |         | ILLINOIS FED. AID PROJECT |           |
|                     |         |         | CONTRACT NO. 60T01        |           |

| PAYCODE  | ITEM DESCRIPTION   | UNIT    | TOTAL   | URBAN     |            |           |
|----------|--|---------|---------|-----------|------------|-----------|
|          |  |         |         | 90% FED   | 80% FED    | 90% FED   |
|          |  |         |         | 10% STATE | 20% COUNTY | 10% STATE |
|          |  |         |         | 0004      | 0004       | 0021      |
|          |  | ROADWAY | ROADWAY | LIGHTING  |            |           |
| 54213669 | PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"                        | EACH    | 3       | 3         |            |           |
| 54213672 | PRECAST REINFORCED CONCRETE FLARED END SECTIONS 27"                        | EACH    | 1       | 1         |            |           |
| 54214509 | PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 24" | EACH    | 2       | 2         |            |           |
| 54214515 | PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 30" | EACH    | 4       | 4         |            |           |
| 542A1060 | PIPE CULVERTS, CLASS A, TYPE 2 15"   | FOOT    | 152     | 152       |            |           |
| 542A8209 | PIPE CULVERTS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 24"                   | FOOT    | 113     | 113       |            |           |
| 542A8215 | PIPE CULVERTS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 30"                   | FOOT    | 58      | 58        |            |           |
| 550A0340 | STORM SEWERS, CLASS A, TYPE 2 12"  | FOOT    | 730     | 730       |            |           |
| 550A0360 | STORM SEWERS, CLASS A, TYPE 2 15"  | FOOT    | 476     | 476       |            |           |
| 550A0410 | STORM SEWERS, CLASS A, TYPE 2 24"  | FOOT    | 488     | 488       |            |           |
| 550A0420 | STORM SEWERS, CLASS A, TYPE 2 27"  | FOOT    | 114     | 114       |            |           |
| 55100700 | STORM SEWER REMOVAL 15"  | FOOT    | 32      | 32        |            |           |
| 55100900 | STORM SEWER REMOVAL 18"  | FOOT    | 112     | 112       |            |           |
| 55101200 | STORM SEWER REMOVAL 24"  | FOOT    | 115     | 115       |            |           |
| 59100100 | GEOCOMPOSITE WALL DRAIN  | SO YD   | 148.8   | 148.8     |            |           |
| 60100060 | CONCRETE HEADWALLS FOR PIPE DRAINS   | EACH    | 7       | 7         |            |           |
| 60108204 | PIPE UNDERDRAINS, TYPE 2, 4"   | FOOT    | 247     | 247       |            |           |
| 60200805 | CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE                            | EACH    | 1       | 1         |            |           |
| 60201340 | CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE                 | EACH    | 10      | 10        |            |           |
| 60205040 | CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 24 FRAME AND GRATE                 | EACH    | 1       | 1         |            |           |
| 60218400 | MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID                    | EACH    | 8       | 8         |            |           |
| 60221100 | MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID                    | EACH    | 1       | 1         |            |           |
| 60223800 | MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID                    | EACH    | 2       | 2         |            |           |
| 60300105 | FRAMES AND GRATES TO BE ADJUSTED   | EACH    | 1       | 1         |            |           |
| 60500050 | REMOVING CATCH BASINS  | EACH    | 1       | 1         |            |           |
| 60602800 | CONCRETE GUTTER, TYPE B  | FOOT    | 105     | 105       |            |           |

\* SPECIALTY ITEMS

| PAYCODE    | ITEM DESCRIPTION  | UNIT    | TOTAL   | URBAN     |            |           |
|------------|---|---------|---------|-----------|------------|-----------|
|            |   |         |         | 90% FED   | 80% FED    | 90% FED   |
|            |   |         |         | 10% STATE | 20% COUNTY | 10% STATE |
|            |   |         |         | 0004      | 0004       | 0021      |
|            |   | ROADWAY | ROADWAY | LIGHTING  |            |           |
| 60605900   | COMBINATION CONCRETE CURB AND GUTTER, TYPE B-9.12                           | FOOT    | 290     | 290       |            |           |
| 60608582   | COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.24                           | FOOT    | 4,805   | 4,805     |            |           |
| 60618320   | CONCRETE MEDIAN SURFACE, 6 INCH   | SO FT   | 14,815  | 14,815    |            |           |
| * 63100089 | TRAFFIC BARRIER TERMINAL, TYPE 6B   | EACH    | 1       | 1         |            |           |
| * 63100167 | TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT                          | EACH    | 1       | 1         |            |           |
| 63200310   | GUARDRAIL REMOVAL   | FOOT    | 302     | 302       |            |           |
| 64200116   | SHOULDER RUMBLE STRIPS, 16 INCH   | FOOT    | 922     | 922       |            |           |
| * 66900200 | NON-SPECIAL WASTE DISPOSAL  | CU YD   | 5,750   | 5,750     |            |           |
| * 66900450 | SPECIAL WASTE PLANS AND REPORTS   | L SUM   | 1       | 1         |            |           |
| * 66900530 | SOIL DISPOSAL ANALYSIS  | EACH    | 5       | 5         |            |           |
| 67000400   | ENGINEER'S FIELD OFFICE, TYPE A   | CAL MO  | 18      | 18        |            |           |
| 67100100   | MOBILIZATION  | L SUM   | 1       | 1         |            |           |
| 70300210   | TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS                              | SO FT   | 90      | 90        |            |           |
| 70300220   | TEMPORARY PAVEMENT MARKING - LINE 4"  | FOOT    | 45,963  | 45,963    |            |           |
| 70300240   | TEMPORARY PAVEMENT MARKING - LINE 6"  | FOOT    | 465     | 465       |            |           |
| 70300260   | TEMPORARY PAVEMENT MARKING - LINE 12"                                       | FOOT    | 3,416   | 3,416     |            |           |
| 70300520   | PAVEMENT MARKING TAPE, TYPE III 4"  | FOOT    | 16,526  | 16,526    |            |           |
| 70400100   | TEMPORARY CONCRETE BARRIER  | FOOT    | 1,523   | 1,523     |            |           |
| 70400200   | RELOCATE TEMPORARY CONCRETE BARRIER   | FOOT    | 605     | 605       |            |           |
| 70600295   | IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, RESETTABLE), TEST LEVEL 2 | EACH    | 8       | 8         |            |           |
| 70600320   | IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 2              | EACH    | 6       | 6         |            |           |
| * 72000100 | SIGN PANEL - TYPE 1   | SO FT   | 444     | 444       |            |           |
| * 72000200 | SIGN PANEL - TYPE 2   | SO FT   | 91      | 91        |            |           |
| 72400310   | REMOVE SIGN PANEL - TYPE 1  | SO FT   | 225     | 225       |            |           |
| * 72400500 | RELOCATE SIGN PANEL ASSEMBLY - TYPE A                                       | EACH    | 3       | 3         |            |           |
| * 72400710 | RELOCATE SIGN PANEL - TYPE 1  | SO FT   | 11      | 11        |            |           |

\* SPECIALTY ITEMS

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: Single Professional Design Firm  
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 PLOT DATE: 3/29/2018



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| PLOT DATE = 3/29/2018                              | DATE - 3/29/18 | REVISD - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NTS SHEET NO. 2 OF 3 SHEETS STA. TO STA.

|   |              |                |                  |             |
|---|--------------|----------------|------------------|-------------|
| F.A.P. R.T.E. 525                             | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135 | SHEET NO. 5 |
| CONTRACT NO. 60T01                            |              |                |                  |             |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |              |                |                  |             |

| PAYCODE    | ITEM DESCRIPTION   | UNIT  | TOTAL  | 90% FED   | 80% FED    | 90% FED   |
|------------|--|-------|--------|-----------|------------|-----------|
|            |  |       |        | 10% STATE | 20% COUNTY | 10% STATE |
|            |  |       |        | 0004      | 0004       | 0021      |
|            |  |       |        | ROADWAY   | ROADWAY    | LIGHTING  |
| * 72800100 | TELESCOPING STEEL SIGN SUPPORT   | FOOT  | 750    | 750       |            |           |
| * 78000200 | THERMOPLASTIC PAVEMENT MARKING - LINE 4"   | FOOT  | 6,316  | 6,316     |            |           |
| * 78000600 | THERMOPLASTIC PAVEMENT MARKING - LINE 12"  | FOOT  | 703    | 703       |            |           |
| * 78008200 | POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS   | SQ FT | 90     | 90        |            |           |
| * 78008210 | POLYUREA PAVEMENT MARKING TYPE I - LINE 4"   | FOOT  | 10,210 | 10,210    |            |           |
| * 78008250 | POLYUREA PAVEMENT MARKING TYPE I - LINE 12"  | FOOT  | 1,005  | 1,005     |            |           |
| * 78008270 | POLYUREA PAVEMENT MARKING TYPE I - LINE 24"  | FOOT  | 35     | 35        |            |           |
| * 78100100 | RAISED REFLECTIVE PAVEMENT MARKER  | EACH  | 92     | 92        |            |           |
| * 78200011 | BARRIER WALL REFLECTORS, TYPE C  | EACH  | 5      | 5         |            |           |
|            | 78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL   | EACH  | 150    | 150       |            |           |
| * 80400100 | ELECTRIC SERVICE INSTALLATION  | EACH  | 1      |           |            | 1         |
| * 80400200 | ELECTRIC UTILITY SERVICE CONNECTION  | L SUM | 1      |           |            | 1         |
| * 81028240 | UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.   | FOOT  | 203    |           |            | 203       |
| * 81603090 | UNIT DUCT, 600V, 3-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE  | FOOT  | 2,300  |           |            | 2,300     |
| * 81702160 | ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 1/0   | FOOT  | 375    |           |            | 375       |
| * 82500350 | LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 100AMP   | EACH  | 1      |           |            | 1         |
| * 83002500 | LIGHT POLE, ALUMINUM, 40 FT. M.H., 12 FT. DAVIT ARM  | EACH  | 16     |           |            | 16        |
| * 83600200 | LIGHT POLE FOUNDATION, 24" DIAMETER  | FOOT  | 160    |           |            | 160       |
| * 83800205 | BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE  | EACH  | 16     |           |            | 16        |
| * A2001730 | TREE, ACER SACCHARUM GOLDSPIRE (GOLDSPIRE SUGAR MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED                                     | EACH  | 17     | 17        |            |           |
| * A2005020 | TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE), 2-1/2" CALIPER, BALLED AND BURLAPPED  | EACH  | 9      | 9         |            |           |
| * A2006516 | TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2" CALIPER, BALLED AND BURLAPPED  | EACH  | 28     | 28        |            |           |
| * A2007116 | TREE, QUERCUS RUBRA (RED OAK), 2" CALIPER, BALLED AND BURLAPPED  | EACH  | 9      | 9         |            |           |
| * A2007620 | TREE, TAXODIUM DISTICHUM (COMMON BALD CYPRESS), 2-1/2" CALIPER, BALLED AND BURLAPPED   | EACH  | 13     | 13        |            |           |
| * B2000770 | TREE, AMELANCHIER X GRANDIFLORA AUTUMN BRILLIANCE (AUTUMN BRILLIANCE SERVICE BERRY), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED | EACH  | 5      | 5         |            |           |
| * B2006116 | TREE, SYRINGA PEKINENSIS MORTON (CHINA SNOW PEKING LILAC), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED                           | EACH  | 5      | 5         |            |           |

\* SPECIALTY ITEMS

| PAYCODE    | ITEM DESCRIPTION   | UNIT    | TOTAL  | 90% FED   | 80% FED    | 90% FED   |
|------------|--|---------|--------|-----------|------------|-----------|
|            |  |         |        | 10% STATE | 20% COUNTY | 10% STATE |
|            |  |         |        | 0004      | 0004       | 0021      |
|            |  |         |        | ROADWAY   | ROADWAY    | LIGHTING  |
| * C2012760 | SHRUB, VIBURNUM PRUNIFOLIUM (BLACKHAW VIBURNUM), 5' HEIGHT, BALLED AND BURLAPPED | EACH    | 11     | 11        |            |           |
| X0326414   | STAMPED COLORED PORTLAND CEMENT CONCRETE MEDIAN SURFACE 8 INCH                   | SQ FT   | 4,549  | 4,549     |            |           |
| X0327979   | PAVEMENT MARKING REMOVAL - GRINDING  | SQ FT   | 15,554 | 15,554    |            |           |
| * X1400149 | LUMINAIRE, LED, HORIZONTAL MOUNT, TYPE C   | EACH    | 16     |           |            | 16        |
| * X2511630 | EROSION CONTROL BLANKET (SPECIAL)  | SQ YD   | 27,635 | 27,635    |            |           |
| X4021000   | TEMPORARY ACCESS (PRIVATE ENTRANCE)  | EACH    | 7      | 7         |            |           |
| X4022000   | TEMPORARY ACCESS (COMMERCIAL ENTRANCE)   | EACH    | 9      | 9         |            |           |
| X4024100   | TEMPORARY ACCESS (WINTERIZE)   | SQ YD   | 2,100  | 2,100     |            |           |
| X6020096   | MANHOLES, TYPE A, 6'-DIAMETER, WITH 2 TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE | EACH    | 1      | 1         |            |           |
| X6022712   | CATCH BASINS, TYPE A, 4'-DIAMETER, WITH SPECIAL FRAME AND GRATE                  | EACH    | 3      | 3         |            |           |
| X6061815   | COMBINATION CONCRETE CURB AND GUTTER, TYPE M (SPECIAL)                           | FOOT    | 377    | 377       |            |           |
| X7010216   | TRAFFIC CONTROL AND PROTECTION, (SPECIAL)  | L SUM   | 1      | 1         |            |           |
| X7015005   | CHANGEABLE MESSAGE SIGN  | CAL DAY | 400    | 400       |            |           |
| X7040125   | PINNING TEMPORARY CONCRETE BARRIER   | EACH    | 654    | 654       |            |           |
| X7810300   | RECESSED REFLECTIVE PAVEMENT MARKER  | EACH    | 95     | 95        |            |           |
| Z0007601   | BUILDING REMOVAL NO. 1   | L SUM   | 1      | 1         |            |           |
| Z0013798   | CONSTRUCTION LAYOUT  | L SUM   | 1      | 1         |            |           |
| Z0030850   | TEMPORARY INFORMATION SIGNING  | SQ FT   | 103    | 103       |            |           |
| * Z0033020 | LUMINAIRE SAFETY CABLE ASSEMBLY  | EACH    | 9      |           |            | 9         |
| Z0046304   | PIPE UNDERDRAINS FOR STRUCTURES 4"   | FOOT    | 111    | 111       |            |           |
| Z0049801   | REMOVAL AND DISPOSAL OF FRIABLE ASBESTOS, BUILDING NO. 1                         | L SUM   | 1      | 1         |            |           |
| Z0049901   | REMOVAL AND DISPOSAL OF NON-FRIABLE ASBESTOS, BUILDING NO. 1                     | L SUM   | 1      | 1         |            |           |
| Z0062456   | TEMPORARY PAVEMENT   | SQ YD   | 8,746  | 8,746     |            |           |
| Ø Z0076600 | TRAINEES   | hour    | 1000   | 1000      |            |           |
| Ø Z0076604 | TRAINEES TRAINING PROGRAM GRADUATE   | hour    | 1000   | 1000      |            |           |

\* SPECIALTY ITEMS Ø 0042

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: #154-61322  
 CLIENT: #154-61322  
 DATE PLOTTED: 3/29/2018  
 PLOT DRIVER: #154-61322  
 PEN TABLE: #154-61322



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 FILE NAME = D:\B0701-act-sum-01.dgn  
 PLOT SCALE = NTS  
 PLOT DATE = 3/29/2018

DESIGNED - BH  
 DRAWN - DMS  
 CHECKED -  
 DATE - 3/29/18

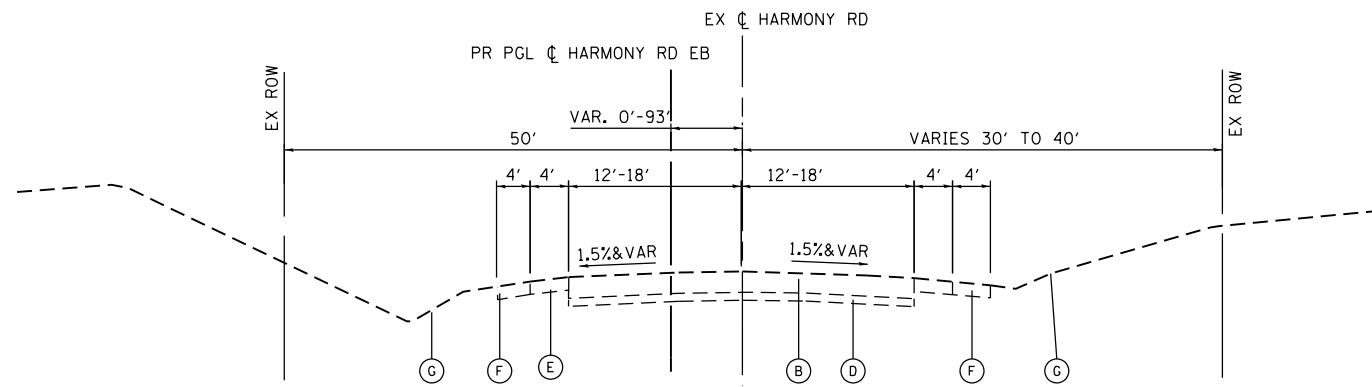
REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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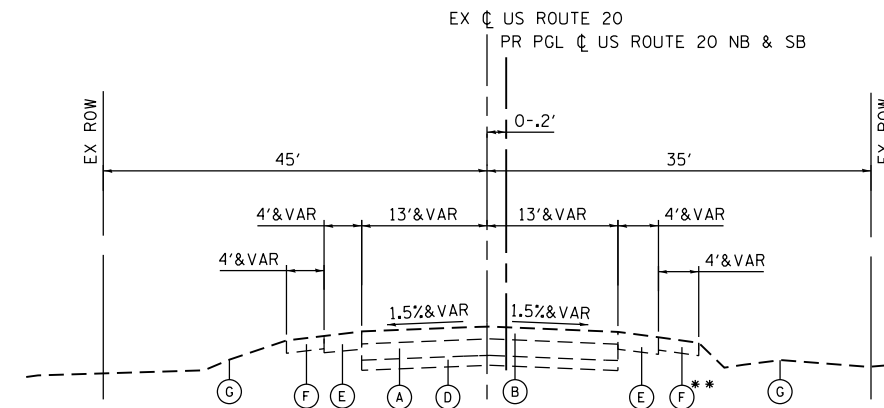
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|---|--------------|----------------|--------------------|-------------|
| F.A.P. RTE. 525                               | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135   | SHEET NO. 6 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |              |                | CONTRACT NO. 60T01 |             |



NOTE: HARMONY ROAD PAVEMENT THICKNESS IS 13" HMA

**EXISTING HARMONY ROAD TYPICAL SECTION**

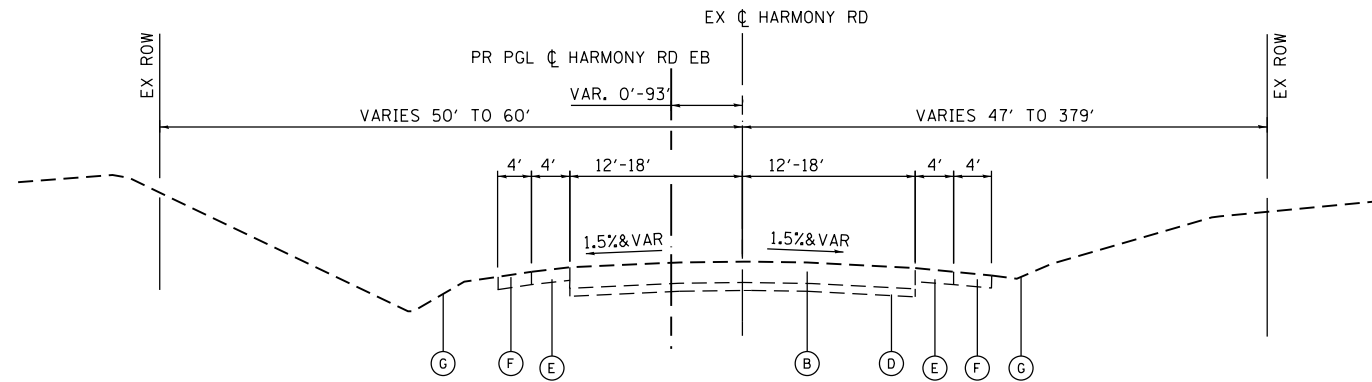
STA. 191+97.37 TO STA. 200+00



**EXISTING US ROUTE 20 TYPICAL SECTION**

STA. 491+50.00 TO STA. 495+17.00

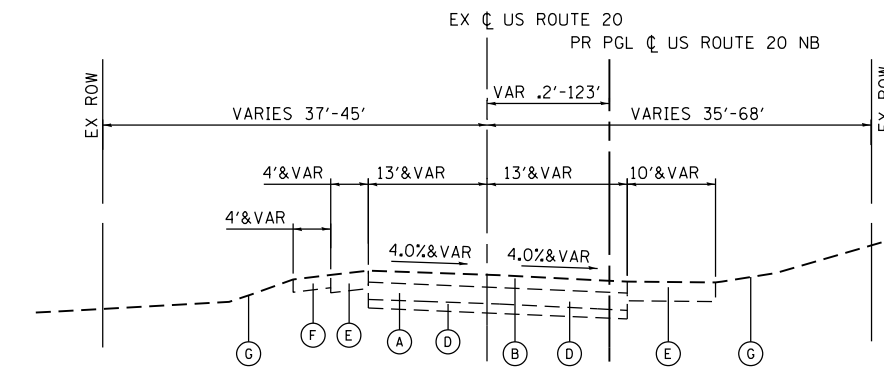
\*\* EXISTING CURB LOCATION: STA. 491+61.99 TO STA. 492+97.73(RT)



NOTE: HARMONY ROAD PAVEMENT THICKNESS IS 13" HMA

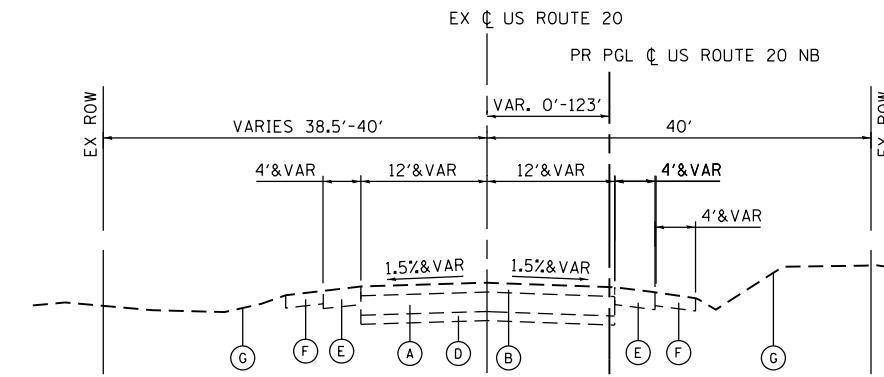
**EXISTING HARMONY ROAD TYPICAL SECTION**

STA. 200+00 TO STA. 209+96.09



**EXISTING US ROUTE 20 TYPICAL SECTION**

STA. 495+17.00 TO STA. 501+15.00  
STA. 495+17.00 TO STA. 498+54.93 (END OF 10' SHOULDER)



**EXISTING US ROUTE 20 TYPICAL SECTION**

STA. 501+15.00 TO STA. 510+43.00

**EXISTING CONDITIONS**

- (A) PCC PAVEMENT 8"
- (B) HOT-MIX ASPHALT PAVEMENT, VARIES 6"-13"
- (C) COMBINATION CONCRETE CURB AND GUTTER
- (D) AGGREGATE SUBBASE, VARIES 4"-6"
- (E) HOT-MIX ASPHALT SHOULDERS, VARIES 7"-10"
- (F) AGGREGATE SHOULDERS
- (G) EXISTING GROUND

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: bhartma  
 DATE PLOTTED: 3/29/2018 9:41:41 AM  
 FILE NAME: D:\60T01\sh-typ-01.dgn  
 PLOT DRIVER: ILpdf.plt  
 PEN TABLE: plot.tbl



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| FILE NAME = D:\60T01\sh-typ-01.dgn | DRAWN - DMS    | REVISED - |
| PLOT SCALE N.T.S.                  | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018              | DATE - 3/29/18 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

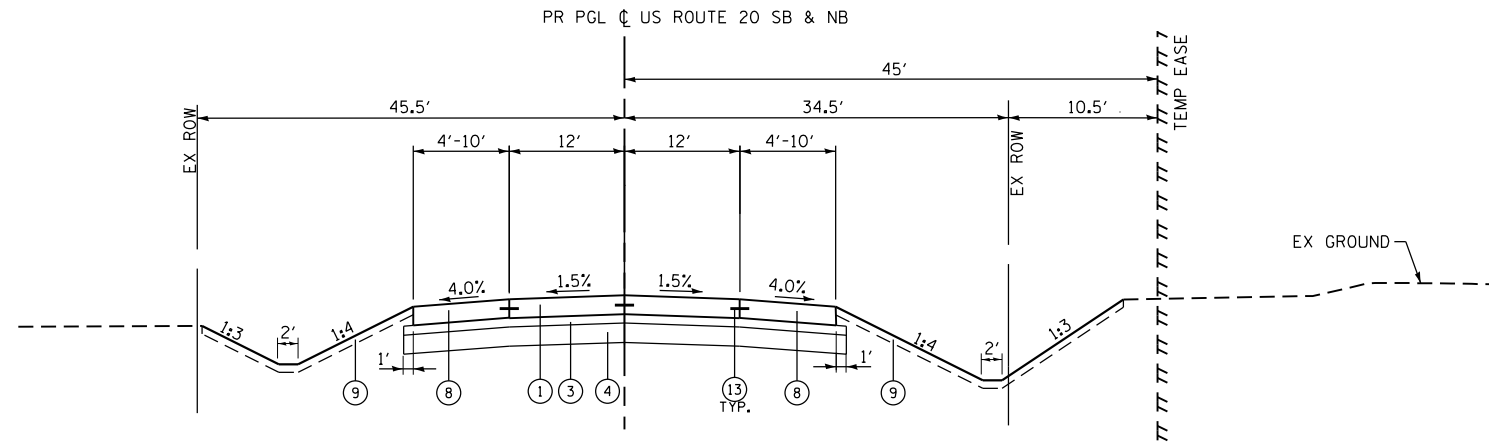
**EXISTING TYPICAL SECTIONS  
US-20 AT HARMONY ROAD**

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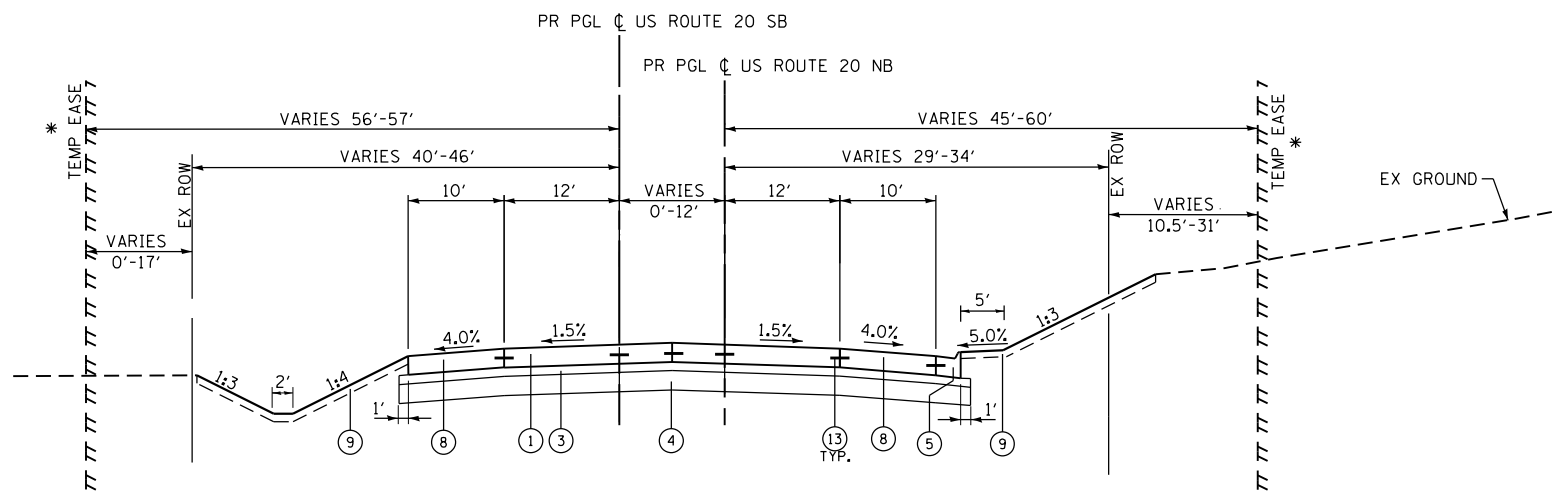
| F.A.P. RTE.                                   | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---|---------|---------|--------------|-----------|
| 525   | 11-N    | MCHENRY | 135          | 7         |
| CONTRACT NO. 60T01                            |         |         |              |           |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |         |         |              |           |

**PROPOSED IMPROVEMENTS**

- ① PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)
- ② HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH) 11"
- ③ STABILIZED SUBBASE - HOT-MIX ASPHALT 4"
- ④ AGGREGATE SUBGRADE IMPROVEMENT, 12" (SO YD)
- ⑤ COMBINATION CONCRETE CURB & GUTTER TYPE M-4.24
- ⑥ COMBINATION CONCRETE CURB & GUTTER TYPE B-9.12 (REVERSE PITCH)
- ⑦ HOT-MIX ASPHALT SHOULDERS, 11"
- ⑧ PORTLAND CEMENT CONCRETE SHOULDERS, 10"
- ⑨ TOPSOIL EXCAVATION AND PLACEMENT, 6" WITH SEEDING, CLASS 2A
- ⑩ COMBINATION CONCRETE CURB AND GUTTER, TYPE M (SPECIAL)
- ⑪ CONCRETE MEDIAN SURFACE, 6"
- ⑫ STAMPED COLORED PORTLAND CEMENT CONCRETE MEDIAN SURFACE 8"
- ⑬ LONGITUDINAL CONSTRUCTION JOINT, NO. 6 X 24" C-C, EPOXY COATED TIE BARS, POURED IN PLACE (INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE PAVEMENT)
- ⑭ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50; 1-1/2"
- ⑮ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 2-1/4"
- ⑯ SUBBASE GRANULAR MATERIAL, TYPE B, 6"



**PROPOSED US ROUTE 20 TYPICAL SECTION**  
STA. 281+50.00'NB'' TO STA. 282+00.00'NB''



**PROPOSED US ROUTE 20 TYPICAL SECTION**  
STA. 282+00.00'NB'' TO STA. 288+04.00'NB''

\* FROM STA. 282+00.00 TO STA. 285+50.00  
FROM STA. 286+56.01 TO STA. 286+97.45  
FROM STA. 287+67.61 TO STA. 288+04.00

| HOT-MIX ASPHALT MIXTURE REQUIREMENTS  |                  |                                  |
|---|------------------|----------------------------------|
| MIXTURE TYPE  | AIR VOIDS @ Ndes | QUALITY MANAGEMENT PROGRAM (QMP) |
| <b>HMA PAVEMENT (FULL DEPTH) 11" (HARMONY ROAD)</b>   |                  |                                  |
| POLYMERIZED HMA SURFACE COURSE, MIX "E", N70 (IL-9.5mm); 2"                                       | 4.0% @ 70 GYR.   | QC/OA                            |
| POLYMERIZED HMA BINDER COURSE (IL-19.0mm); N90; 2 1/4"  | 4.0% @ 90 GYR.   | QC/OA                            |
| HMA BINDER COURSE (IL-19.0mm); N90; 6 3/4"  | 4.0% @ 90 GYR.   | QCP                              |
| <b>PAVEMENT RECONSTRUCTION (US 20)</b>  |                  |                                  |
| HOT-MIX ASPHALT STABILIZED SUBBASE (HMA BINDER IL-19.0); 4"                                       | 4.0% @ 70 GYR.   | QCP                              |
| <b>HMA SHOULDERS, 11"</b>   |                  |                                  |
| HMA SHOULDER (HMA BINDER IL-19mm); 9"   | 4.0% @ 70 GYR.   | QCP                              |
| HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5mm); 2"                                       | 4.0% @ 70 GYR.   | QC/OA                            |
| <b>DRIVEWAYS</b>  |                  |                                  |
| HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5mm); 2"                                       | 4.0% @ 50 GYR.   | QC/OA                            |
| HMA BASE COURSE (HMA BINDER IL-19mm); PE-6" or CE-8"  | 4.0% @ 50 GYR.   | QCP                              |
| <b>TEMPORARY PAVEMENT</b>   |                  |                                  |
| HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5mm); 2"                                       | 4.0% @ 70 GYR.   | QC/OA                            |
| HMA BASE COURSE (HMA BINDER IL-19.0mm); 8"  | 4.0% @ 70 GYR.   | QCP                              |
| <b>BIKE PATH</b>  |                  |                                  |
| HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5mm)   | 4.0% @ 50 GYR.   | QC/OA                            |
| HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50   | 4.0% @ 50 GYR.   | QC/OA                            |
| QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/OA); QUALITY CONTROL FOR PERFORMANCE (QCP) |                  |                                  |

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

THE AC TYPE FOR POLYMERIZED HMA MIXTURES SHALL BE "SBS/SBR PG 76 -22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

ALL TEMPORARY PAVEMENT SHALL BE PROVIDED OVER MINIMUM 4" SUBBASE GRANULAR MATERIAL, TYPE B.

PC CONCRETE TEMPORARY PAVEMENT SHALL CONSIST OF CLASS PV CONCRETE MEETING THE REQUIREMENTS OF ARTICLE 1020 OF THE STANDARD SPECIFICATIONS, PCC PAVEMENT 8" THICK. TEMPORARY PCC PAVEMENT DOES NOT REQUIRE DOWEL BARS.

COMPANY NAME: HRGreen  
PROJECT CONTACT: bhartma  
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PLOT DRIVER: ILpdf.plt  
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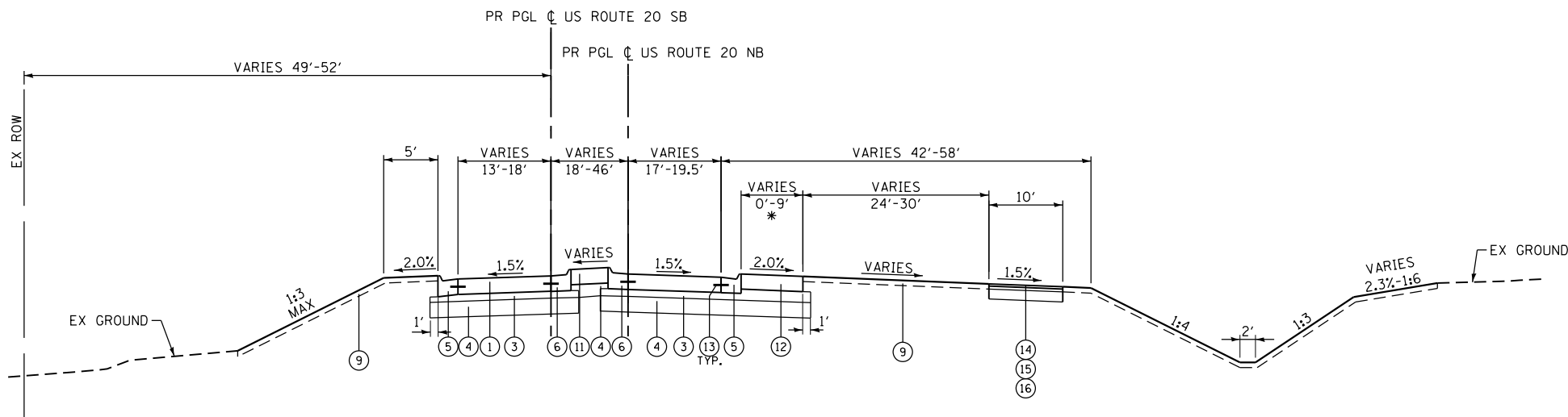
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| PLOT SCALE N.T.S.                    | CHECKED -      | REVISED -    |        |
| PLOT DATE = 5/7/2018                 | DATE - 3/29/18 | REVISED -    |        |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

|  |                         |
|--|-------------------------|
| <b>PROPOSED TYPICAL SECTIONS<br/>US-20 AT HARMONY ROAD</b> |                         |
| SCALE: N.T.S.  | SHEET NO. 2 OF 6 SHEETS |
| STA.   | TO STA.                 |

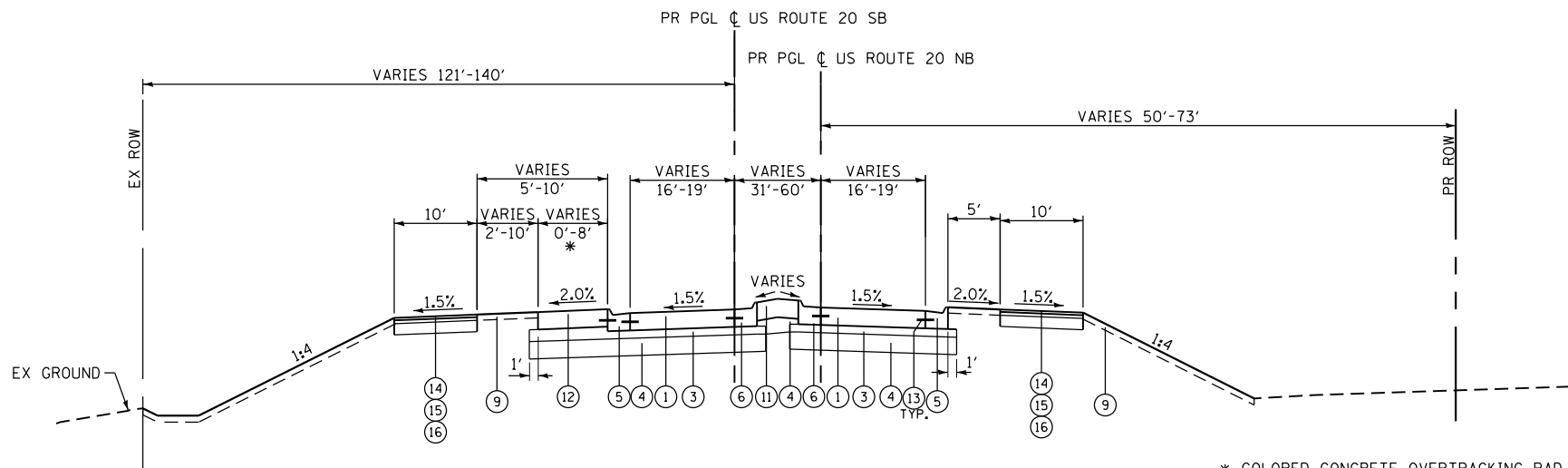
| F.A.P. RTE.                                   | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---|---------|---------|--------------|-----------|
| 525   | 11-N    | MCHENRY | 135          | 8         |
| CONTRACT NO. 60101                            |         |         |              |           |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |         |         |              |           |





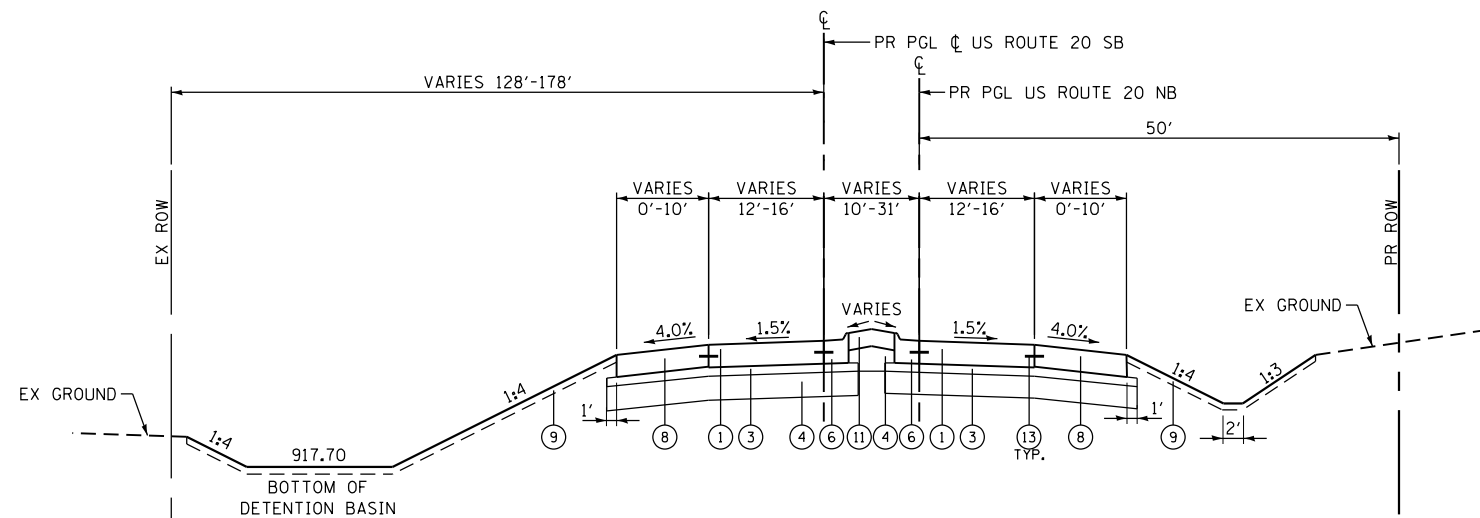
**PROPOSED US ROUTE 20 TYPICAL SECTION**  
STA. 289+20.00'NB'' TO STA. 289+96.00'NB''

\* COLORED CONCRETE OVERTRACKING PAD  
- STA. 289+08 NB(RT) - STA. 289+96 NB(RT)



**PROPOSED US ROUTE 20 TYPICAL SECTION**  
STA. 500+50.00'NB'' TO STA. 501+60.00'NB''

\* COLORED CONCRETE OVERTRACKING PAD  
- STA. 600+75 SB(LT) - STA. 601+76 SB(LT)



**PROPOSED US ROUTE 20 TYPICAL SECTION**  
STA. 501+60.00'NB'' TO STA. 503+87.00'NB''

**PROPOSED IMPROVEMENTS**

- ① PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)
- ② HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH) 11"
- ③ STABILIZED SUBBASE - HOT-MIX ASPHALT 4"
- ④ AGGREGATE SUBGRADE IMPROVEMENT, 12" (50 YD)
- ⑤ COMBINATION CONCRETE CURB & GUTTER TYPE M-4.24
- ⑥ COMBINATION CONCRETE CURB & GUTTER TYPE B-9.12 (REVERSE PITCH)
- ⑦ HOT-MIX ASPHALT SHOULDERS, 11"
- ⑧ PORTLAND CEMENT CONCRETE SHOULDERS, 10"
- ⑨ TOPSOIL EXCAVATION AND PLACEMENT, 6" WITH SEEDING, CLASS 2A
- ⑩ COMBINATION CONCRETE CURB AND GUTTER, TYPE M (SPECIAL)
- ⑪ CONCRETE MEDIAN SURFACE, 6"
- ⑫ STAMPED COLORED PORTLAND CEMENT CONCRETE MEDIAN SURFACE 8"
- ⑬ LONGITUDINAL CONSTRUCTION JOINT, NO. 6 X 24" C-C, EPOXY COATED TIE BARS, POURED IN PLACE (INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE PAVEMENT)
- ⑭ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50; 1-1/2"
- ⑮ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 2-1/4"
- ⑯ SUBBASE GRANULAR MATERIAL, TYPE B, 6"

COMPANY NAME: HRGreen.com  
PROJECT CONTACT: bhartma  
DATE PLOTTED: 3/29/2018 9:46:58 AM  
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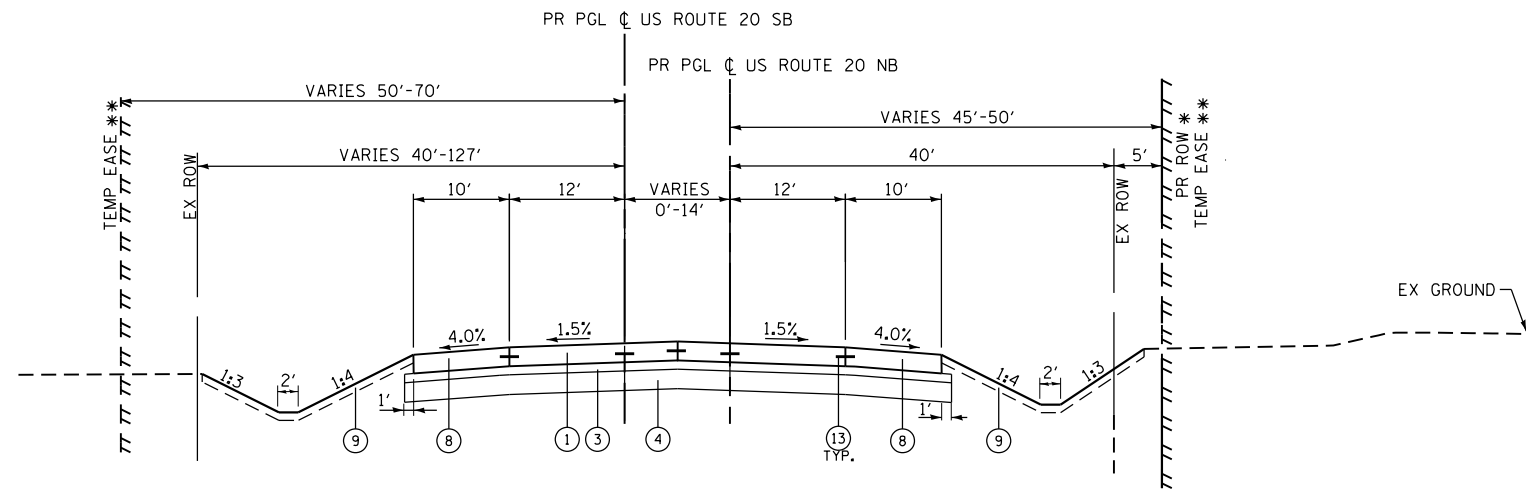
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| PLOT DATE = 3/29/2018              | DATE - 3/29/18 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED TYPICAL SECTIONS  
US-20 AT HARMONY ROAD**

SCALE: N.T.S. SHEET NO. 3 OF 6 SHEETS STA. TO STA.

| F.A.P. RTE.                                   | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---|---------|---------|--------------|-----------|
| 525   | 11-N    | MCHENRY | 135          | 9         |
| CONTRACT NO. 60T01                            |         |         |              |           |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |         |         |              |           |

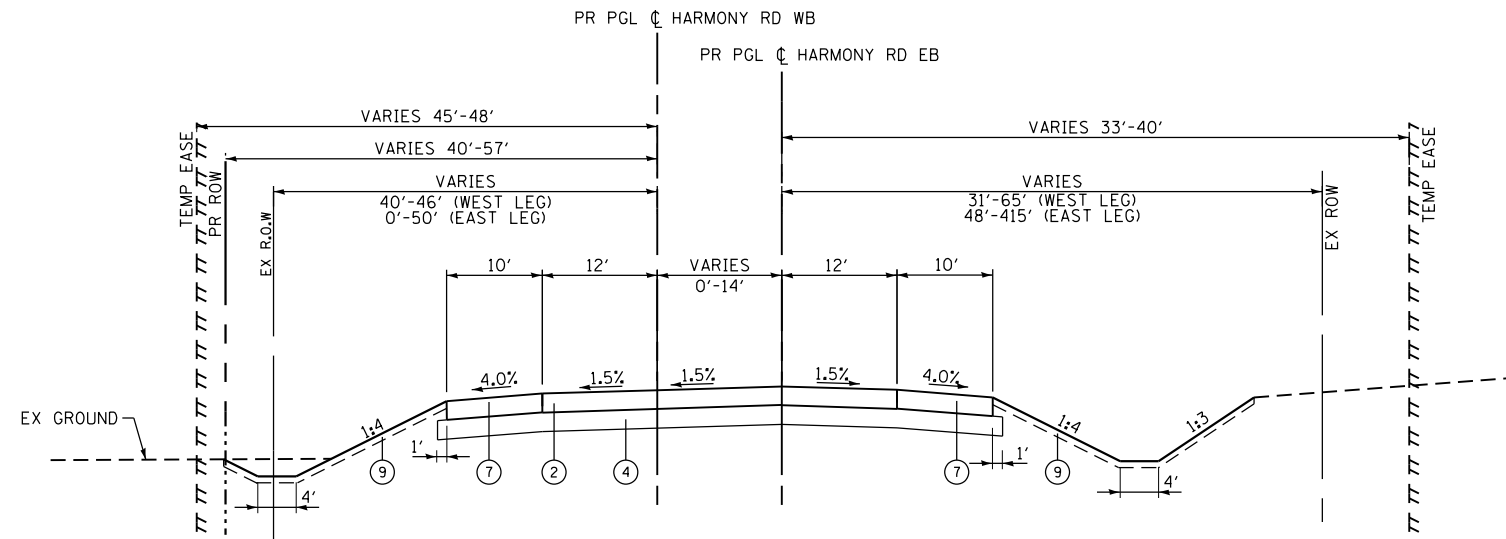


\* FROM STA. 504+17.16 TO STA. 506+34.33  
 \*\* FROM STA. 506+34.33 RT TO STA. 510+43.00 RT  
 FROM STA. 507+65.76 LT TO STA. 510+43.00 LT

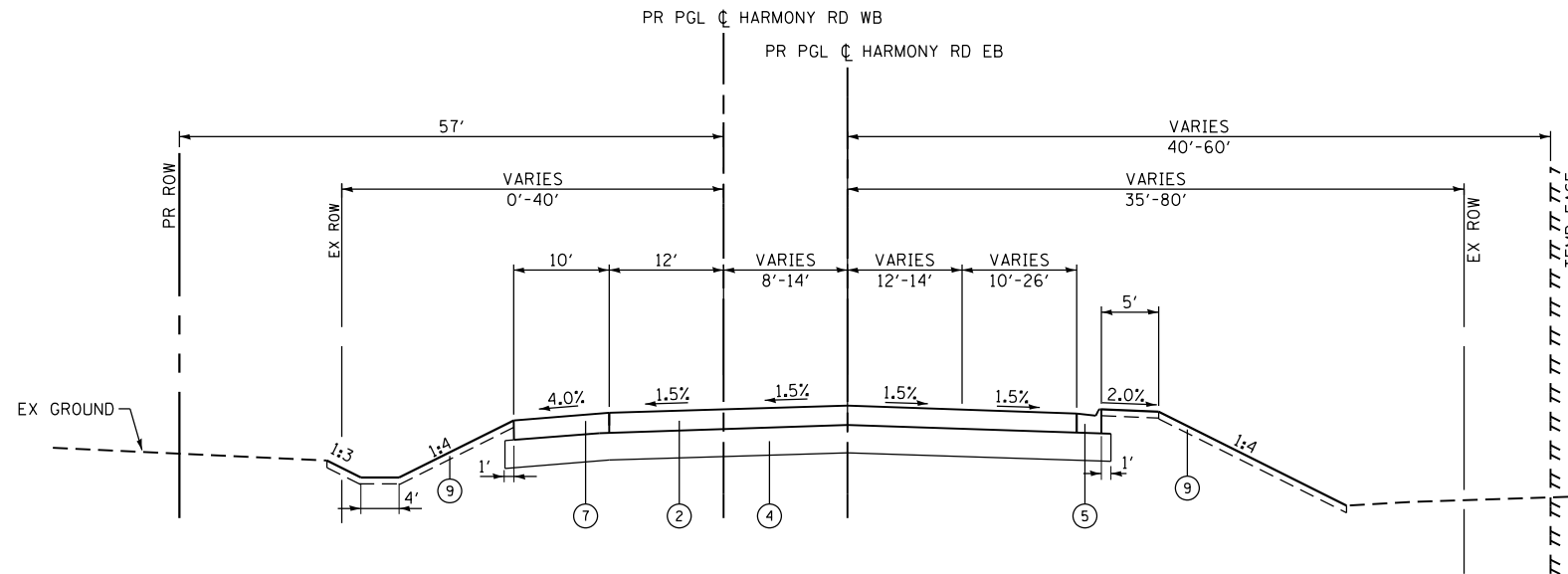
**PROPOSED US ROUTE 20 TYPICAL SECTION**  
 STA. 503+87.00"NB" TO STA. 510+43.00"NB"

**PROPOSED IMPROVEMENTS**

- ① PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)
- ② HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH) 11"
- ③ STABILIZED SUBBASE - HOT-MIX ASPHALT 4"
- ④ AGGREGATE SUBGRADE IMPROVEMENT, 12" (SO YD)
- ⑤ COMBINATION CONCRETE CURB & GUTTER TYPE M-4.24
- ⑥ COMBINATION CONCRETE CURB & GUTTER TYPE B-9.12 (REVERSE PITCH)
- ⑦ HOT-MIX ASPHALT SHOULDERS, 11"
- ⑧ PORTLAND CEMENT CONCRETE SHOULDERS, 10"
- ⑨ TOPSOIL EXCAVATION AND PLACEMENT, 6" WITH SEEDING, CLASS 2A
- ⑩ COMBINATION CONCRETE CURB AND GUTTER, TYPE M (SPECIAL)
- ⑪ CONCRETE MEDIAN SURFACE, 6"
- ⑫ STAMPED COLORED PORTLAND CEMENT CONCRETE MEDIAN SURFACE 8"
- ⑬ LONGITUDINAL CONSTRUCTION JOINT, NO. 6 X 24" C-C, EPOXY COATED TIE BARS, POURED IN PLACE (INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE PAVEMENT)



**PROPOSED HARMONY ROAD TYPICAL SECTION**  
 STA. 893+00.00"EB" TO STA. 896+47.00"EB"  
 STA. 316+02.00"EB" TO STA. 321+56.00"EB"



**PROPOSED HARMONY ROAD TYPICAL SECTION**  
 STA. 896+47.00"EB" TO STA. 898+86.06"EB"

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: bhartma  
 DATE PLOTTED: 5/7/2018 4:15:54 PM  
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 PLOT DRIVER: ILpdf.plt  
 PEN TABLE: plot.tbl



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| PLOT SCALE                          | CHECKED -      | REVISED -    |        |
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

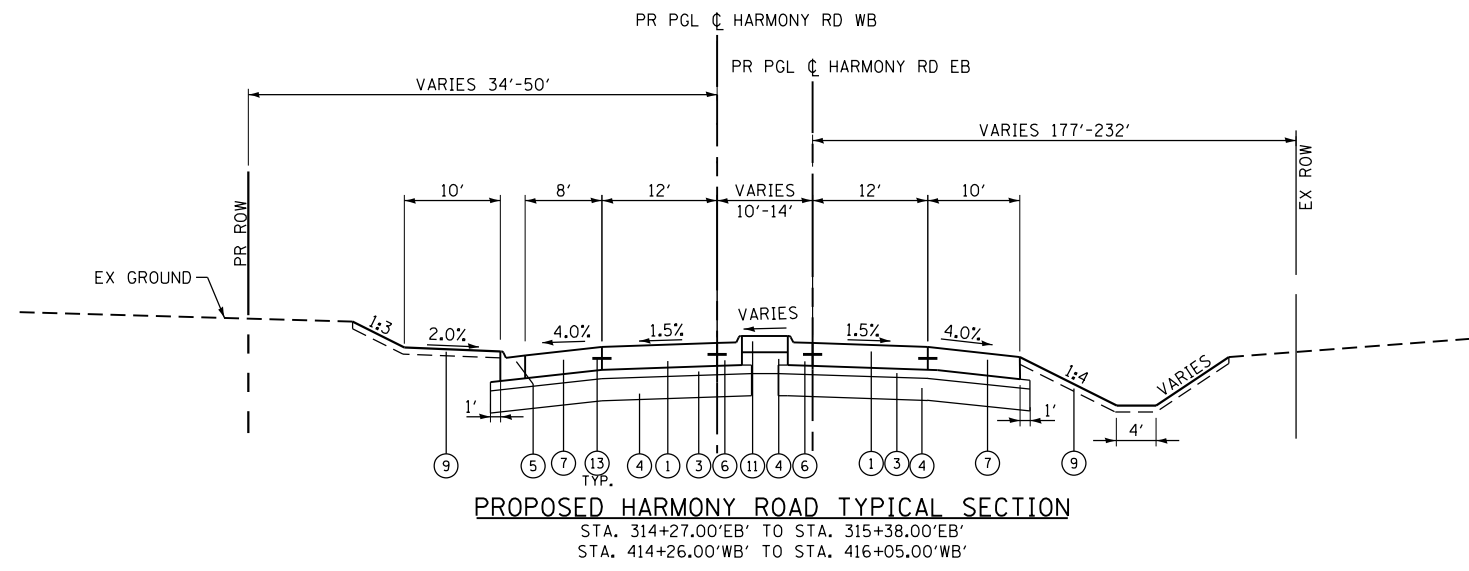
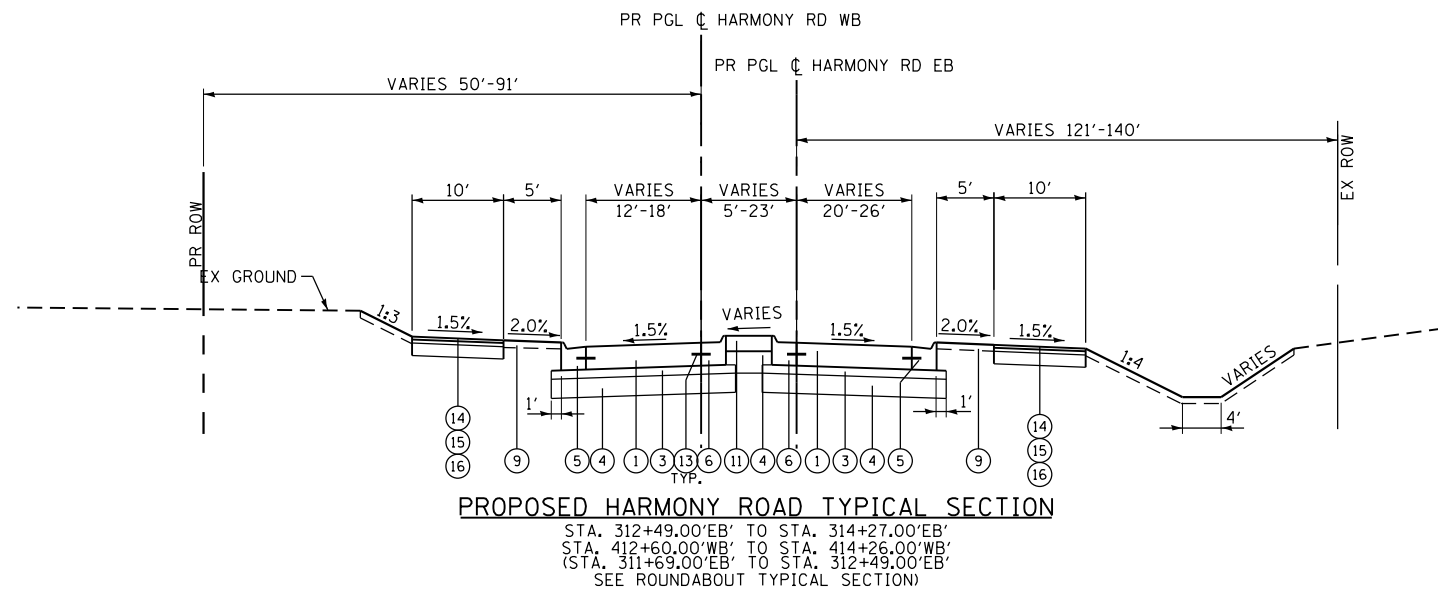
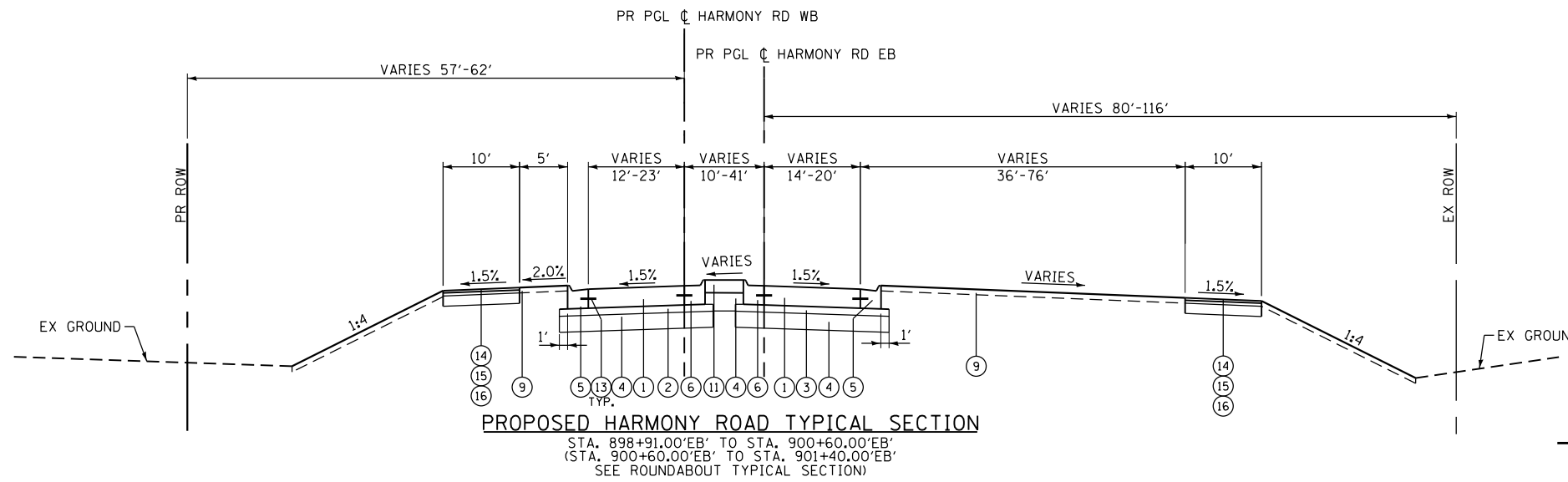
**PROPOSED TYPICAL SECTIONS  
 US-20 AT HARMONY ROAD**

NO. 4 OF 6 SHEETS STA. TO STA.

| F.A.P. RTE.                                   | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---|---------|---------|--------------|-----------|
| 525   | 11-N    | MCHENRY | 135          | 10        |
| CONTRACT NO. 60T01                            |         |         |              |           |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |         |         |              |           |

**PROPOSED IMPROVEMENTS**

- ① PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)
- ② HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH) 11"
- ③ STABILIZED SUBBASE - HOT-MIX ASPHALT 4"
- ④ AGGREGATE SUBGRADE IMPROVEMENT, 12" (SO YD)
- ⑤ COMBINATION CONCRETE CURB & GUTTER TYPE M-4.24
- ⑥ COMBINATION CONCRETE CURB & GUTTER TYPE B-9.12 (REVERSE PITCH)
- ⑦ HOT-MIX ASPHALT SHOULDERS, 11"
- ⑧ PORTLAND CEMENT CONCRETE SHOULDERS, 10"
- ⑨ TOPSOIL EXCAVATION AND PLACEMENT, 6" WITH SEEDING, CLASS 2A
- ⑩ COMBINATION CONCRETE CURB AND GUTTER, TYPE M (SPECIAL)
- ⑪ CONCRETE MEDIAN SURFACE, 6"
- ⑫ STAMPED COLORED PORTLAND CEMENT CONCRETE MEDIAN SURFACE 8"
- ⑬ LONGITUDINAL CONSTRUCTION JOINT, NO. 6 X 24" C-C, EPOXY COATED TIE BARS, POURED IN PLACE (INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE PAVEMENT)
- ⑭ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50; 1-1/2"
- ⑮ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 2-1/4"
- ⑯ SUBBASE GRANULAR MATERIAL, TYPE B, 6"



COMPANY NAME: HRGreen.com  
PROJECT CONTACT: bhartma  
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PLOT DRIVER: ILpdf.plt  
PEN TABLE: plot.tbl



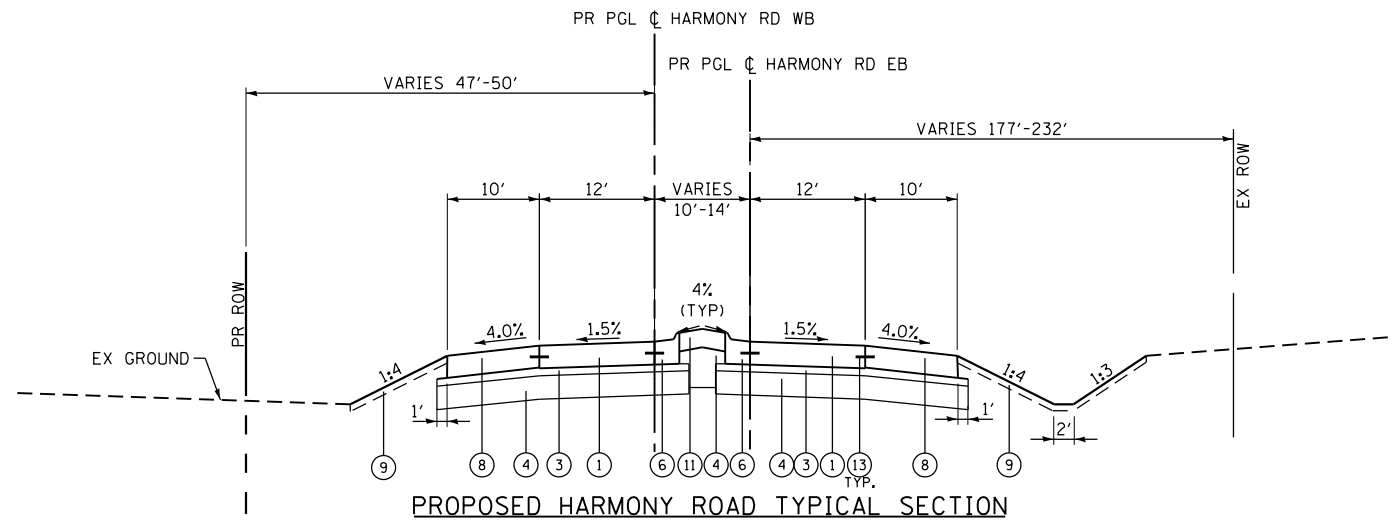
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| FILE NAME = D:\60101\sh-typ-05.dgn | DRAWN - DMS    | REVISED - |
| PLOT SCALE                         | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018              | DATE - 3/29/18 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED TYPICAL SECTIONS  
US-20 AT HARMONY ROAD**

SCALE: N.T.S. SHEET NO. 5 OF 6 SHEETS STA. TO STA.

| F.A.P. RTE.                                   | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---|---------|---------|--------------|-----------|
| 525   | 11-N    | MCHENRY | 135          | 11        |
| CONTRACT NO. 60T01                            |         |         |              |           |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |         |         |              |           |

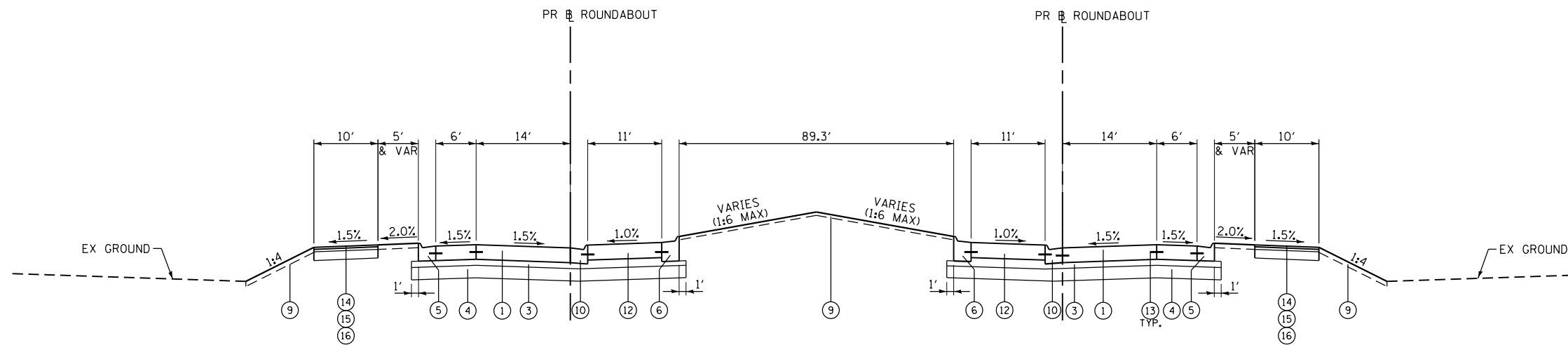


**PROPOSED HARMONY ROAD TYPICAL SECTION**

STA. 315+38.00'EB' TO STA. 316+02.00'EB'  
 STA. 415+38.00'WB' TO STA. 416+05.00'WB'

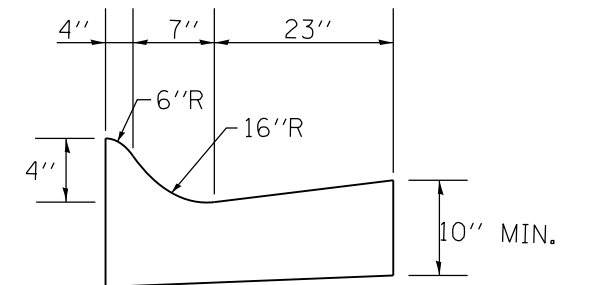
**PROPOSED IMPROVEMENTS**

- ① PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)
- ② HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH) 11"
- ③ STABILIZED SUBBASE - HOT-MIX ASPHALT 4"
- ④ AGGREGATE SUBGRADE IMPROVEMENT, 12" (SO YD)
- ⑤ COMBINATION CONCRETE CURB & GUTTER TYPE M-4.24
- ⑥ COMBINATION CONCRETE CURB & GUTTER TYPE B-9.12 (REVERSE PITCH)
- ⑦ HOT-MIX ASPHALT SHOULDERS, 11"
- ⑧ PORTLAND CEMENT CONCRETE SHOULDERS, 10"
- ⑨ TOPSOIL EXCAVATION AND PLACEMENT, 6" WITH SEEDING, CLASS 2A
- ⑩ COMBINATION CONCRETE CURB AND GUTTER, TYPE M (SPECIAL)
- ⑪ CONCRETE MEDIAN SURFACE, 6"
- ⑫ STAMPED COLORED PORTLAND CEMENT CONCRETE MEDIAN SURFACE 8"
- ⑬ LONGITUDINAL CONSTRUCTION JOINT, NO. 6 X 24" C-C, EPOXY COATED TIE BARS, POURED IN PLACE (INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE PAVEMENT)
- ⑭ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50; 1-1/2"
- ⑮ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 2-1/4"
- ⑯ SUBBASE GRANULAR MATERIAL, TYPE B, 6"



**PROPOSED ROUNDABOUT TYPICAL SECTION**

STA. 900+00"C" TO STA. 903+77.00"C"



**COMBINATION CONCRETE CURB AND GUTTER TYPE M (SPECIAL)**

COMPANY NAME: HRGreen  
 PROJECT CONTACT: bhartma  
 DATE PLOTTED: 3/29/2018 9:19:19 AM  
 FILE NAME: D:\60701\sh-typ-06.dgn  
 PLOT DRIVER: ILpdf.plt  
 PEN TABLE: plot.tbl



|                                    |                |           |
|------------------------------------|----------------|-----------|
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| FILE NAME = D:\60701\sh-typ-06.dgn | DRAWN - DMS    | REVISED - |
| PLOT SCALE N.T.S.                  | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018              | DATE - 3/29/18 | REVISED - |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED TYPICAL SECTIONS  
 ROUNDABOUT**

SCALE: N.T.S. SHEET NO. 6 OF 6 SHEETS STA. TO STA.

| F.A.P. RTE.                                   | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---|---------|---------|--------------|-----------|
| 525   | 11-N    | MCHENRY | 135          | 12        |
| CONTRACT NO. 60T01                            |         |         |              |           |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |         |         |              |           |

| US 20     | PRE-STAGE (CU YD) |      | STAGE 1 (CU YD) |       | STAGE 2 (CU YD) |     | STAGE 3 (CU YD) |       | STAGE 4 (CU YD) |     | EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) WITH 15% SHRINKAGE |           |         |         |         |         |
|-----------|-------------------|------|-----------------|-------|-----------------|-----|-----------------|-------|-----------------|-----|--|-----------|---------|---------|---------|---------|
|           | STATION           | CUT  | FILL            | CUT   | FILL            | CUT | FILL            | CUT   | FILL            | CUT | FILL   | PRE-STAGE | STAGE 1 | STAGE 2 | STAGE 3 | STAGE 4 |
| 281+00.00 |                   |      |                 |       |                 |     |                 |       |                 |     |  |           |         |         |         |         |
| 281+50.00 | 14.9              | 0.0  | 22.8            | 0.0   | 0.0             | 0.0 | 12.3            | 3.6   | 0.0             | 0.0 | 12.7   | 19.4      | 0.0     | 6.9     | 0.0     |         |
| 282+00.00 | 31.8              | 0.0  | 106.9           | 1.5   | 0.0             | 0.0 | 79.8            | 6.9   | 0.0             | 0.0 | 27.0   | 89.4      | 0.0     | 61.0    | 0.0     |         |
| 282+50.00 | 49.5              | 0.0  | 185.3           | 3.0   | 0.0             | 0.0 | 168.2           | 4.2   | 0.0             | 0.0 | 42.1   | 154.5     | 0.0     | 138.8   | 0.0     |         |
| 283+00.00 | 28.9              | 2.5  | 197.5           | 3.3   | 0.0             | 0.0 | 178.1           | 2.4   | 0.0             | 0.0 | 22.1   | 164.5     | 0.0     | 148.9   | 0.0     |         |
| 283+17.00 | 3.5               | 2.9  | 76.7            | 1.3   | 0.0             | 0.0 | 54.7            | 0.9   | 0.0             | 0.0 | 0.1  | 63.8      | 0.0     | 45.6    | 0.0     |         |
| 283+50.00 | 5.7               | 11.9 | 148.4           | 2.2   | 0.0             | 0.0 | 116.5           | 1.7   | 0.0             | 0.0 | -7.1   | 124.0     | 0.0     | 97.4    | 0.0     |         |
| 284+00.00 | 8.0               | 24.0 | 208.5           | 2.7   | 0.0             | 0.0 | 204.3           | 2.8   | 0.0             | 0.0 | -17.2  | 174.6     | 0.0     | 170.8   | 0.0     |         |
| 284+50.00 | 23.9              | 11.9 | 252.9           | 2.7   | 0.0             | 0.0 | 269.5           | 2.5   | 0.0             | 0.0 | 8.4  | 212.3     | 0.0     | 226.6   | 0.0     |         |
| 285+00.00 | 54.8              | 0.0  | 275.1           | 2.6   | 0.0             | 0.0 | 359.0           | 2.5   | 0.0             | 0.0 | 46.6   | 231.2     | 0.0     | 302.6   | 0.0     |         |
| 285+35.00 | 45.8              | 0.0  | 196.8           | 2.5   | 0.0             | 0.0 | 265.2           | 1.8   | 0.0             | 0.0 | 39.0   | 164.9     | 0.0     | 223.6   | 0.0     |         |
| 285+50.00 | 18.2              | 0.0  | 75.0            | 1.1   | 0.0             | 0.0 | 105.2           | 0.7   | 0.0             | 0.0 | 15.5   | 62.6      | 0.0     | 88.7    | 0.0     |         |
| 286+00.00 | 58.7              | 0.0  | 177.1           | 3.1   | 0.0             | 0.0 | 301.2           | 2.5   | 0.0             | 0.0 | 49.9   | 147.4     | 0.0     | 253.5   | 0.0     |         |
| 286+50.00 | 54.5              | 0.0  | 120.3           | 1.7   | 0.0             | 0.0 | 214.4           | 3.4   | 0.0             | 0.0 | 46.3   | 100.6     | 0.0     | 178.8   | 0.0     |         |
| 286+62.00 | 12.4              | 0.0  | 21.5            | 0.0   | 0.0             | 0.0 | 33.6            | 2.8   | 0.0             | 0.0 | 10.5   | 18.3      | 0.0     | 25.8    | 0.0     |         |
| 286+77.00 | 14.7              | 0.0  | 37.2            | 5.4   | 0.0             | 0.0 | 36.6            | 3.7   | 0.0             | 0.0 | 12.5   | 26.2      | 0.0     | 27.4    | 0.0     |         |
| 287+00.00 | 22.0              | 0.0  | 54.0            | 8.3   | 0.0             | 0.0 | 62.1            | 2.8   | 0.0             | 0.0 | 18.7   | 37.6      | 0.0     | 50.0    | 0.0     |         |
| 287+50.00 | 30.7              | 0.9  | 77.2            | 9.6   | 0.0             | 0.0 | 109.8           | 15.8  | 0.0             | 0.0 | 25.2   | 56.0      | 0.0     | 77.5    | 0.0     |         |
| 288+00.00 | 7.0               | 0.9  | 74.5            | 10.0  | 0.0             | 0.0 | 42.9            | 12.7  | 0.0             | 0.0 | 5.1  | 53.4      | 0.0     | 23.8    | 0.0     |         |
| 288+50.00 | 0.0               | 0.0  | 50.4            | 3.4   | 0.0             | 0.0 | 0.0             | 0.0   | 0.0             | 0.0 | 0.0  | 39.4      | 0.0     | 0.0     | 0.0     |         |
| 289+00.00 | 0.0               | 0.0  | 44.9            | 72.7  | 0.0             | 0.0 | 173.0           | 99.6  | 0.0             | 0.0 | 0.0  | -34.5     | 0.0     | 47.4    | 0.0     |         |
| 289+50.00 | 0.0               | 0.0  | 28.1            | 69.6  | 0.0             | 0.0 | 328.4           | 156.0 | 0.0             | 0.0 | 0.0  | -45.8     | 0.0     | 123.1   | 0.0     |         |
| 188+00.00 | 0.0               | 0.0  | 0.0             | 0.0   | 0.0             | 0.0 | 0.0             | 0.0   | 0.0             | 0.0 | 0.0  | 0.0       | 0.0     | 0.0     | 0.0     |         |
| 188+50.00 | 5.3               | 8.9  | 0.0             | 0.0   | 0.0             | 0.0 | 32.9            | 14.2  | 0.0             | 0.0 | -4.4   | 0.0       | 0.0     | 13.8    | 0.0     |         |
| 189+00.00 | 13.9              | 12.9 | 0.0             | 0.0   | 0.0             | 0.0 | 46.3            | 19.7  | 0.0             | 0.0 | -1.1   | 0.0       | 0.0     | 19.6    | 0.0     |         |
| 189+50.00 | 11.2              | 9.0  | 0.0             | 0.0   | 0.0             | 0.0 | 18.1            | 54.4  | 0.0             | 0.0 | 0.5  | 0.0       | 0.0     | -38.9   | 0.0     |         |
| 190+00.00 | 2.6               | 5.0  | 0.0             | 0.0   | 0.0             | 0.0 | 4.7             | 156.0 | 0.0             | 0.0 | -2.8   | 0.0       | 0.0     | -152.0  | 0.0     |         |
| 500+50.00 | 0.0               | 0.0  | 0.0             | 0.0   | 0.0             | 0.0 | 0.0             | 0.0   | 0.0             | 0.0 | 0.0  | 0.0       | 0.0     | 0.0     | 0.0     |         |
| 501+00.00 | 0.0               | 0.0  | 598.3           | 1.3   | 0.0             | 0.0 | 0.0             | 0.0   | 0.0             | 0.0 | 0.0  | 507.3     | 0.0     | 0.0     | 0.0     |         |
| 501+50.00 | 0.0               | 0.0  | 789.0           | 33.3  | 0.0             | 0.0 | 0.0             | 0.0   | 0.0             | 0.0 | 0.0  | 637.3     | 0.0     | 0.0     | 0.0     |         |
| 502+00.00 | 0.0               | 0.0  | 366.6           | 164.1 | 0.0             | 0.0 | 0.0             | 0.0   | 0.0             | 0.0 | 0.0  | 147.5     | 0.0     | 0.0     | 0.0     |         |
| 502+50.00 | 0.0               | 0.0  | 324.4           | 263.4 | 0.0             | 0.0 | 0.0             | 0.0   | 0.0             | 0.0 | 0.0  | 12.4      | 0.0     | 0.0     | 0.0     |         |
| 503+00.00 | 0.0               | 0.0  | 280.6           | 200.0 | 0.0             | 0.0 | 0.0             | 0.0   | 0.0             | 0.0 | 0.0  | 38.5      | 0.0     | 0.0     | 0.0     |         |
| 503+50.00 | 0.0               | 0.0  | 245.5           | 83.8  | 0.0             | 0.0 | 0.0             | 0.0   | 0.0             | 0.0 | 0.0  | 124.8     | 0.0     | 0.0     | 0.0     |         |
| 504+00.00 | 0.0               | 0.0  | 460.6           | 16.5  | 0.0             | 0.0 | 75.8            | 31.2  | 0.0             | 0.0 | 0.0  | 375.1     | 0.0     | 33.3    | 0.0     |         |
| 504+50.00 | 0.0               | 0.0  | 680.1           | 2.6   | 0.0             | 0.0 | 135.3           | 64.1  | 0.0             | 0.0 | 0.0  | 575.5     | 0.0     | 50.9    | 0.0     |         |
| 505+00.00 | 0.0               | 0.0  | 529.7           | 35.5  | 0.0             | 0.0 | 81.8            | 35.3  | 0.0             | 0.0 | 0.0  | 414.8     | 0.0     | 34.2    | 0.0     |         |
| 505+50.00 | 0.0               | 0.0  | 368.0           | 139.9 | 0.0             | 0.0 | 99.1            | 31.0  | 0.0             | 0.0 | 0.0  | 172.9     | 0.0     | 53.2    | 0.0     |         |
| 506+00.00 | 0.0               | 0.0  | 336.9           | 218.0 | 0.0             | 0.0 | 124.2           | 31.1  | 0.0             | 0.0 | 0.0  | 68.4      | 0.0     | 74.4    | 0.0     |         |
| 506+50.00 | 0.0               | 0.0  | 317.2           | 180.2 | 0.0             | 0.0 | 123.6           | 3.3   | 0.0             | 0.0 | 0.0  | 89.5      | 0.0     | 101.7   | 0.0     |         |

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 PROJECT CONTACT: HRGreen.com  
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 PEN TABLE: plot.tbl



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 PLOT SCALE = NTS  
 PLOT DATE = 3/29/2018

DESIGNED - BH  
 DRAWN - DMS  
 CHECKED -  
 DATE - 3/29/18

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SCALE: NTS SHEET NO. 1 OF 3 SHEETS STA. TO STA.

**SCHEDULE OF QUANTITIES  
 US-20 AT HARMONY ROAD**

|                    |         |         |                           |           |
|--------------------|---------|---------|---------------------------|-----------|
| F.A.P. RTE.        | SECTION | COUNTY  | TOTAL SHEETS              | SHEET NO. |
| 525                | 11-N    | MCHENRY | 135                       | 13        |
| CONTRACT NO. 60T01 |         |         | ILLINOIS FED. AID PROJECT |           |

| US 20     | PRE-STAGE (CU YD) |       | STAGE 1 (CU YD) |        | STAGE 2 (CU YD) |     | STAGE 3 (CU YD) |        | STAGE 4 (CU YD) |     | EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) WITH 15% SHRINKAGE |           |         |         |         |
|-----------|-------------------|-------|-----------------|--------|-----------------|-----|-----------------|--------|-----------------|-----|--|-----------|---------|---------|---------|
|           | STATION           | CUT   | FILL            | CUT    | FILL            | CUT | FILL            | CUT    | FILL            | CUT | FILL   | PRE-STAGE | STAGE 1 | STAGE 2 | STAGE 3 |
| 507+00.00 | 0.0               | 0.0   | 284.7           | 109.7  | 0.0             | 0.0 | 147.1           | 1.5    | 0.0             | 0.0 | 0.0  | 132.3     | 0.0     | 123.6   | 0.0     |
| 507+50.00 | 0.0               | 0.0   | 246.1           | 88.9   | 0.0             | 0.0 | 147.4           | 1.4    | 0.0             | 0.0 | 0.0  | 120.3     | 0.0     | 123.9   | 0.0     |
| 507+90.00 | 0.0               | 0.0   | 178.7           | 60.4   | 0.0             | 0.0 | 169.9           | 13.8   | 0.0             | 0.0 | 0.0  | 91.5      | 0.0     | 130.7   | 0.0     |
| 508+00.00 | 0.0               | 0.0   | 45.5            | 10.3   | 0.0             | 0.0 | 54.2            | 6.6    | 0.0             | 0.0 | 0.0  | 28.3      | 0.0     | 39.5    | 0.0     |
| 508+50.00 | 0.0               | 0.0   | 222.0           | 35.2   | 0.0             | 0.0 | 254.9           | 19.0   | 0.0             | 0.0 | 0.0  | 153.5     | 0.0     | 197.7   | 0.0     |
| 509+00.00 | 3.1               | 2.6   | 197.5           | 25.6   | 0.0             | 0.0 | 240.1           | 9.8    | 0.0             | 0.0 | 0.0  | 142.3     | 0.0     | 194.3   | 0.0     |
| 509+50.00 | 6.3               | 5.9   | 175.2           | 32.1   | 0.0             | 0.0 | 231.3           | 15.6   | 0.0             | 0.0 | -0.5   | 116.8     | 0.0     | 181.0   | 0.0     |
| 510+00.00 | 6.4               | 7.4   | 170.5           | 31.9   | 0.0             | 0.0 | 218.6           | 17.2   | 0.0             | 0.0 | -2.0   | 113.0     | 0.0     | 168.6   | 0.0     |
| 600+50.00 | 0.0               | 0.0   | 0.0             | 0.0    | 0.0             | 0.0 | 0.0             | 0.0    | 0.0             | 0.0 | 0.0  | 0.0       | 0.0     | 0.0     | 0.0     |
| 601+00.00 | 8.5               | 9.7   | 262.8           | 0.0    | 203.2           | 0.0 | 0.0             | 0.0    | 0.0             | 0.0 | -2.5   | 223.4     | 172.8   | 0.0     | 0.0     |
| 601+50.00 | 14.4              | 24.4  | 481.9           | 61.7   | 390.2           | 0.0 | 0.0             | 0.0    | 0.0             | 0.0 | -12.2  | 348.0     | 331.7   | 0.0     | 0.0     |
| 602+00.00 | 13.3              | 22.6  | 396.2           | 142.9  | 366.1           | 0.0 | 0.0             | 0.0    | 0.0             | 0.0 | -11.3  | 193.9     | 311.2   | 0.0     | 0.0     |
| 602+50.00 | 14.8              | 15.7  | 292.8           | 228.7  | 179.2           | 0.0 | 0.0             | 0.0    | 0.0             | 0.0 | -3.1   | 20.2      | 152.3   | 0.0     | 0.0     |
| 603+00.00 | 12.7              | 8.9   | 149.2           | 172.7  | 0.0             | 0.0 | 76.6            | 78.1   | 0.0             | 0.0 | 1.9  | -45.9     | 0.0     | -13.0   | 0.0     |
| 603+50.00 | 9.0               | 1.1   | 80.3            | 25.2   | 0.0             | 0.0 | 167.1           | 130.7  | 0.0             | 0.0 | 6.6  | 43.1      | 0.0     | 11.3    | 0.0     |
| TOTALS    | 606.7             | 189.3 | 10911.3         | 2570.5 | 1138.7          | 0.0 | 5563.7          | 1063.1 | 0.0             | 0.0 | 326.4  | 6704.1    | 967.9   | 3666.0  | 0.0     |

| HARMONY   | PRE-STAGE (CU YD) |      | STAGE 1 (CU YD) |       | STAGE 2 (CU YD) |      | STAGE 3 (CU YD) |     | STAGE 4 (CU YD) |       | EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) WITH 15% SHRINKAGE |           |         |         |         |         |
|-----------|-------------------|------|-----------------|-------|-----------------|------|-----------------|-----|-----------------|-------|--|-----------|---------|---------|---------|---------|
|           | STATION           | CUT  | FILL            | CUT   | FILL            | CUT  | FILL            | CUT | FILL            | CUT   | FILL   | PRE-STAGE | STAGE 1 | STAGE 2 | STAGE 3 | STAGE 4 |
| 892+50.00 |                   |      |                 |       |                 |      |                 |     |                 |       |  |           |         |         |         |         |
| 893+00.00 | 18.5              | 0.0  | 27.8            | 13.7  | 20.3            | 1.6  | 0.0             | 0.0 | 0.0             | 0.0   | 15.7   | 9.9       | 15.7    | 0.0     | 0.0     |         |
| 893+18.00 | 4.0               | 0.0  | 16.1            | 5.2   | 14.5            | 1.5  | 0.0             | 0.0 | 0.0             | 0.0   | 3.4  | 8.5       | 10.8    | 0.0     | 0.0     |         |
| 893+36.00 | 0.0               | 0.0  | 12.5            | 1.1   | 15.6            | 2.7  | 0.0             | 0.0 | 0.0             | 0.0   | 0.0  | 9.6       | 10.6    | 0.0     | 0.0     |         |
| 893+50.00 | 0.0               | 0.0  | 10.3            | 1.0   | 11.5            | 2.0  | 0.0             | 0.0 | 0.0             | 0.0   | 0.0  | 7.7       | 7.8     | 0.0     | 0.0     |         |
| 894+00.00 | 0.0               | 0.0  | 35.9            | 2.5   | 37.1            | 4.6  | 0.0             | 0.0 | 0.0             | 0.0   | 0.0  | 28.0      | 26.9    | 0.0     | 0.0     |         |
| 894+50.00 | 0.0               | 0.0  | 65.1            | 19.9  | 47.0            | 8.7  | 0.0             | 0.0 | 0.0             | 0.0   | 0.0  | 35.4      | 31.3    | 0.0     | 0.0     |         |
| 895+00.00 | 0.0               | 0.0  | 88.4            | 41.8  | 54.0            | 14.4 | 0.0             | 0.0 | 0.0             | 0.0   | 0.0  | 33.4      | 31.5    | 0.0     | 0.0     |         |
| 895+50.00 | 0.0               | 0.0  | 86.2            | 46.5  | 56.3            | 10.9 | 0.0             | 0.0 | 0.0             | 0.0   | 0.0  | 26.8      | 36.9    | 0.0     | 0.0     |         |
| 896+00.00 | 0.0               | 0.0  | 102.0           | 44.8  | 59.4            | 4.1  | 0.0             | 0.0 | 0.0             | 0.0   | 0.0  | 41.9      | 46.5    | 0.0     | 0.0     |         |
| 896+34.00 | 0.0               | 0.0  | 81.9            | 29.0  | 50.0            | 3.8  | 0.0             | 0.0 | 0.0             | 0.0   | 0.0  | 40.7      | 38.7    | 0.0     | 0.0     |         |
| 896+50.00 | 0.0               | 0.0  | 42.5            | 14.1  | 24.4            | 1.7  | 0.0             | 0.0 | 0.0             | 0.0   | 0.0  | 22.0      | 19.1    | 0.0     | 0.0     |         |
| 897+00.00 | 0.0               | 0.0  | 145.4           | 50.6  | 61.9            | 0.6  | 0.0             | 0.0 | 0.0             | 0.0   | 0.0  | 72.9      | 52.1    | 0.0     | 0.0     |         |
| 897+50.00 | 0.0               | 0.0  | 161.5           | 59.0  | 54.4            | 3.2  | 0.0             | 0.0 | 4.3             | 8.3   | 0.0  | 78.3      | 43.0    | 0.0     | -4.7    |         |
| 898+00.00 | 0.0               | 0.0  | 178.4           | 77.7  | 48.3            | 9.9  | 0.0             | 0.0 | 4.3             | 11.5  | 0.0  | 74.0      | 31.2    | 0.0     | -7.9    |         |
| 898+50.00 | 2.0               | 14.3 | 176.6           | 158.2 | 46.7            | 53.5 | 0.0             | 0.0 | 0.0             | 7.0   | -12.5  | -8.2      | -13.9   | 0.0     | -7.0    |         |
| 899+00.00 | 3.4               | 47.6 | 83.0            | 111.7 | 23.1            | 46.9 | 0.0             | 0.0 | 60.6            | 198.1 | -44.8  | -41.1     | -27.2   | 0.0     | -146.5  |         |
| 899+50.00 | 3.4               | 75.3 | 0.0             | 0.0   | 0.0             | 0.0  | 0.0             | 0.0 | 148.5           | 524.6 | -72.4  | 0.0       | 0.0     | 0.0     | -398.4  |         |

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: HRGreen.com  
 DATE PLOTTED: 3/29/2018 9:10:32 AM  
 FILE NAME: D:\60701\ent+earth-table-01.dgn  
 PLOT DRIVER: ILpdfw.dwt  
 PEN TABLE: plotabel.tbl



|   |                |           |
|---|----------------|-----------|
| USER NAME = bhartma                         | DESIGNED - BH  | REVISED - |
| FILE NAME = D:\60701\ent+earth-table-01.dgn | DRAWN - DMS    | REVISED - |
| PLOT SCALE = NTS                            | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                       | DATE - 3/29/18 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

|            |  |                         |  |              |  |
|------------|--|-------------------------|--|--------------|--|
| SCALE: NTS |  | SHEET NO. 2 OF 3 SHEETS |  | STA. TO STA. |  |
|------------|--|-------------------------|--|--------------|--|

SCHEDULE OF QUANTITIES  
US-20 AT HARMONY ROAD

|                    |              |                |                           |              |
|--------------------|--------------|----------------|---------------------------|--------------|
| F.A.P. RTE. 525    | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135          | SHEET NO. 14 |
| CONTRACT NO. 60T01 |              |                | ILLINOIS FED. AID PROJECT |              |

| HARMONY          | PRE-STAGE (CU YD) |       | STAGE 1 (CU YD) |        | STAGE 2 (CU YD) |       | STAGE 3 (CU YD) |     | STAGE 4 (CU YD) |        | EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) WITH 15% SHRINKAGE |           |         |         |         |
|------------------|-------------------|-------|-----------------|--------|-----------------|-------|-----------------|-----|-----------------|--------|--|-----------|---------|---------|---------|
|                  | STATION           | CUT   | FILL            | CUT    | FILL            | CUT   | FILL            | CUT | FILL            | CUT    | FILL   | PRE-STAGE | STAGE 1 | STAGE 2 | STAGE 3 |
| 900+00.00        | 12.3              | 175.6 | 0.0             | 0.0    | 0.0             | 0.0   | 0.0             | 0.0 | 198.8           | 671.7  | -165.2   | 0.0       | 0.0     | 0.0     | -502.7  |
| 900+50.00        | 10.3              | 133.8 | 0.0             | 0.0    | 0.0             | 0.0   | 0.0             | 0.0 | 110.9           | 468.2  | -125.0   | 0.0       | 0.0     | 0.0     | -374.0  |
| 798+50.00        | 0.0               | 0.0   | 0.0             | 0.0    | 0.0             | 0.0   | 0.0             | 0.0 | 0.0             | 0.0    | 0.0  | 0.0       | 0.0     | 0.0     | 0.0     |
| 799+00.00        | 0.0               | 0.0   | 75.3            | 134.0  | 0.0             | 0.0   | 0.0             | 0.0 | 0.0             | 0.0    | 0.0  | -70.0     | 0.0     | 0.0     | 0.0     |
| 799+50.00        | 0.0               | 0.0   | 153.1           | 361.9  | 0.0             | 0.0   | 0.0             | 0.0 | 0.0             | 0.0    | 0.0  | -231.8    | 0.0     | 0.0     | 0.0     |
| 800+00.00        | 0.0               | 0.0   | 156.3           | 468.1  | 0.0             | 0.0   | 0.0             | 0.0 | 0.0             | 0.0    | 0.0  | -335.3    | 0.0     | 0.0     | 0.0     |
| 800+50.00        | 0.0               | 0.0   | 261.9           | 319.4  | 0.0             | 0.0   | 0.0             | 0.0 | 0.0             | 0.0    | 0.0  | -96.7     | 0.0     | 0.0     | 0.0     |
| 312+00.00        | 0.0               | 0.0   | 0.0             | 0.0    | 0.0             | 0.0   | 0.0             | 0.0 | 0.0             | 0.0    | 0.0  | 0.0       | 0.0     | 0.0     | 0.0     |
| 312+50.00        | 0.0               | 0.0   | 87.6            | 64.7   | 0.0             | 0.0   | 0.0             | 0.0 | 0.0             | 0.0    | 0.0  | 9.7       | 0.0     | 0.0     | 0.0     |
| 313+00.00        | 0.0               | 0.0   | 388.1           | 94.0   | 0.0             | 0.0   | 0.0             | 0.0 | 0.0             | 0.0    | 0.0  | 235.9     | 0.0     | 0.0     | 0.0     |
| 313+50.00        | 0.0               | 0.0   | 544.4           | 36.8   | 0.0             | 0.0   | 0.0             | 0.0 | 0.0             | 0.0    | 0.0  | 426.0     | 0.0     | 0.0     | 0.0     |
| 314+00.00        | 0.0               | 0.0   | 583.0           | 8.6    | 0.0             | 0.0   | 0.0             | 0.0 | 0.0             | 0.0    | 0.0  | 486.9     | 0.0     | 0.0     | 0.0     |
| 314+50.00        | 0.0               | 0.0   | 728.9           | 1.1    | 0.0             | 0.0   | 0.0             | 0.0 | 0.0             | 0.0    | 0.0  | 618.4     | 0.0     | 0.0     | 0.0     |
| 315+00.00        | 0.0               | 0.0   | 774.7           | 0.0    | 0.0             | 0.0   | 0.0             | 0.0 | 0.0             | 0.0    | 0.0  | 658.5     | 0.0     | 0.0     | 0.0     |
| 315+50.00        | 0.0               | 0.0   | 767.9           | 0.0    | 0.0             | 0.0   | 0.0             | 0.0 | 0.0             | 0.0    | 0.0  | 652.7     | 0.0     | 0.0     | 0.0     |
| 316+00.00        | 0.0               | 0.0   | 638.9           | 0.0    | 0.0             | 0.0   | 0.0             | 0.0 | 0.0             | 0.0    | 0.0  | 543.1     | 0.0     | 0.0     | 0.0     |
| 316+50.00        | 0.0               | 0.0   | 542.7           | 42.8   | 0.0             | 0.0   | 0.0             | 0.0 | 0.0             | 0.0    | 0.0  | 418.5     | 0.0     | 0.0     | 0.0     |
| 317+00.00        | 0.0               | 0.0   | 555.6           | 192.4  | 0.0             | 0.0   | 0.0             | 0.0 | 0.0             | 0.0    | 0.0  | 279.8     | 0.0     | 0.0     | 0.0     |
| 317+50.00        | 0.0               | 0.0   | 542.7           | 354.9  | 0.0             | 0.0   | 0.0             | 0.0 | 0.0             | 0.0    | 0.0  | 106.4     | 0.0     | 0.0     | 0.0     |
| 318+00.00        | 0.0               | 0.0   | 555.4           | 383.8  | 0.0             | 0.0   | 0.0             | 0.0 | 0.0             | 0.0    | 0.0  | 88.3      | 0.0     | 0.0     | 0.0     |
| 318+50.00        | 0.0               | 0.0   | 505.4           | 277.7  | 0.0             | 0.0   | 0.0             | 0.0 | 0.0             | 0.0    | 0.0  | 151.9     | 0.0     | 0.0     | 0.0     |
| 319+00.00        | 0.0               | 0.0   | 480.6           | 171.7  | 0.0             | 0.0   | 0.0             | 0.0 | 0.0             | 0.0    | 0.0  | 236.9     | 0.0     | 0.0     | 0.0     |
| 319+50.00        | 0.0               | 0.0   | 445.1           | 95.5   | 0.0             | 0.0   | 0.0             | 0.0 | 0.0             | 0.0    | 0.0  | 282.9     | 0.0     | 0.0     | 0.0     |
| 320+00.00        | 0.0               | 0.0   | 317.5           | 26.2   | 0.0             | 0.0   | 0.0             | 0.0 | 0.0             | 0.0    | 0.0  | 243.7     | 0.0     | 0.0     | 0.0     |
| 320+50.00        | 0.0               | 0.0   | 198.8           | 4.6    | 0.0             | 0.0   | 0.0             | 0.0 | 0.0             | 0.0    | 0.0  | 164.3     | 0.0     | 0.0     | 0.0     |
| 321+00.00        | 0.0               | 0.0   | 112.8           | 3.6    | 0.0             | 0.0   | 0.0             | 0.0 | 0.0             | 0.0    | 0.0  | 92.3      | 0.0     | 0.0     | 0.0     |
| 321+50.00        | 0.0               | 0.0   | 77.6            | 3.2    | 0.0             | 0.0   | 0.0             | 0.0 | 0.0             | 0.0    | 0.0  | 62.7      | 0.0     | 0.0     | 0.0     |
| 412+50.00        | 0.0               | 0.0   | 0.0             | 0.0    | 0.0             | 0.0   | 0.0             | 0.0 | 0.0             | 0.0    | 0.0  | 0.0       | 0.0     | 0.0     | 0.0     |
| 413+00.00        | 0.0               | 0.0   | 189.9           | 1.5    | 0.0             | 0.0   | 0.0             | 0.0 | 0.0             | 0.0    | 0.0  | 159.9     | 0.0     | 0.0     | 0.0     |
| 413+50.00        | 0.0               | 0.0   | 396.3           | 2.8    | 0.0             | 0.0   | 0.0             | 0.0 | 0.0             | 0.0    | 0.0  | 334.1     | 0.0     | 0.0     | 0.0     |
| 414+00.00        | 0.0               | 0.0   | 363.8           | 2.5    | 0.0             | 0.0   | 0.0             | 0.0 | 0.0             | 0.0    | 0.0  | 306.7     | 0.0     | 0.0     | 0.0     |
| 414+50.00        | 0.0               | 0.0   | 346.6           | 2.3    | 0.0             | 0.0   | 0.0             | 0.0 | 0.0             | 0.0    | 0.0  | 292.3     | 0.0     | 0.0     | 0.0     |
| 415+00.00        | 0.0               | 0.0   | 370.3           | 2.3    | 0.0             | 0.0   | 0.0             | 0.0 | 0.0             | 0.0    | 0.0  | 312.4     | 0.0     | 0.0     | 0.0     |
| 415+50.00        | 0.0               | 0.0   | 468.3           | 3.4    | 0.0             | 0.0   | 0.0             | 0.0 | 0.0             | 0.0    | 0.0  | 394.7     | 0.0     | 0.0     | 0.0     |
| 416+00.00        | 0.0               | 0.0   | 395.4           | 8.2    | 0.0             | 0.0   | 0.0             | 0.0 | 0.0             | 0.0    | 0.0  | 327.8     | 0.0     | 0.0     | 0.0     |
| 416+50.00        | 0.0               | 0.0   | 108.1           | 6.0    | 0.0             | 0.0   | 0.0             | 0.0 | 0.0             | 0.0    | 0.0  | 85.9      | 0.0     | 0.0     | 0.0     |
| 900+00 +o 902+00 | 0.0               | 0.0   | 1367.4          | 13.3   | 0.0             | 0.0   | 0.0             | 0.0 | 0.0             | 0.0    | 0.0  | 1149.0    | 0.0     | 0.0     | 0.0     |
| 902+00 +o 903+75 | 0.0               | 0.0   | 377.8           | 831.1  | 0.0             | 0.0   | 0.0             | 0.0 | 0.0             | 0.0    | 0.0  | -510.0    | 0.0     | 0.0     | 0.0     |
| TOTALS           | 53.9              | 446.6 | 15191.7         | 4595.2 | 624.7           | 170.0 | 0.0             | 0.0 | 527.4           | 1889.4 | -400.8   | 8317.8    | 361.0   | 0.0     | -1441.1 |

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: Illinois Professional Design Firm  
 DATE PLOTTED: 3/29/2018 9:10:35 AM  
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 PLOT DRIVER: ILpdf.plt  
 PEN TABLE: plotabel.tbl



|   |                |           |
|---|----------------|-----------|
| USER NAME = bhartma                         | DESIGNED - BH  | REVISED - |
| FILE NAME = D:\60701\ent+earth-table-01.dgn | DRAWN - DMS    | REVISED - |
| PLOT SCALE = NTS                            | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                       | DATE - 3/29/18 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

|            |  |                         |  |              |  |
|------------|--|-------------------------|--|--------------|--|
| SCALE: NTS |  | SHEET NO. 3 OF 3 SHEETS |  | STA. TO STA. |  |
|------------|--|-------------------------|--|--------------|--|

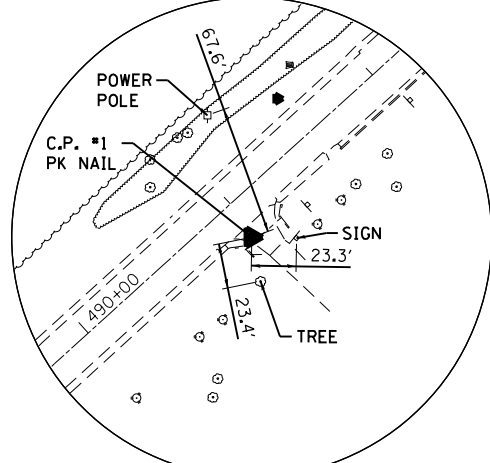
SCHEDULE OF QUANTITIES  
US-20 AT HARMONY ROAD

|   |              |                |                  |              |
|---|--------------|----------------|------------------|--------------|
| F.A.P. RTE. 525                               | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135 | SHEET NO. 15 |
| CONTRACT NO. 60T01                            |              |                |                  |              |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |              |                |                  |              |

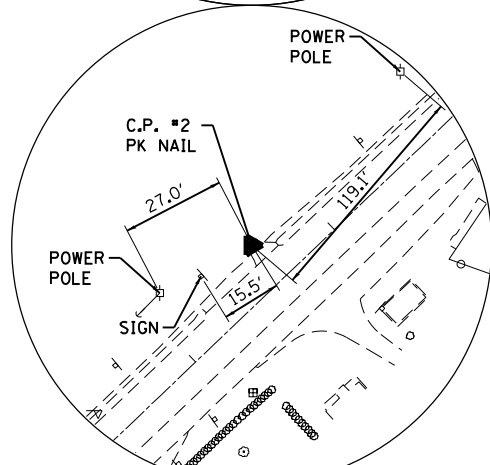
EXIST. CURVE E.US20-1  
 $\Delta = 1^\circ 26' 36''$  (LT)  
 $D = 1^\circ 09' 47''$   
 $R = 4,926.65'$   
 $T = 62.06'$   
 $L = 124.11'$   
 $E = 0.39'$   
 $e =$   
 $T.R. =$   
 $S.E. RUN =$   
 $P.C. STA. = 494+13.41$   
 $N: 2000837.35$   
 $E: 932207.57$   
 $PI STA. = 494+75.47$   
 $N: 2000883.30$   
 $E: 932165.85$   
 $P.T. STA. = 495+37.53$   
 $N: 2000928.19$   
 $E: 932123.00$

EXIST. CURVE E.US20-2  
 $\Delta = 28^\circ 01' 22''$  (RT)  
 $D = 6^\circ 56' 45''$   
 $R = 824.90'$   
 $T = 205.85'$   
 $L = 403.45'$   
 $E = 25.30'$   
 $e =$   
 $T.R. =$   
 $S.E. RUN =$   
 $P.C. STA. = 498+64.94$   
 $N: 2001164.99$   
 $E: 931896.89$   
 $PI STA. = 500+70.79$   
 $N: 2001313.87$   
 $E: 931754.73$   
 $P.T. STA. = 502+68.40$   
 $N: 2001512.08$   
 $E: 931699.19$

CONTROL POINT #1  
 $N: 2000616.43$   
 $E: 932435.58$   
 $ELEV: 924.56$



CONTROL POINT #2  
 $N: 2001002.60$   
 $E: 932018.98$   
 $ELEV: 932.27$



STA. 500+00.00 US ROUTE 20 =  
 STA. 200+00.00 HARMONY ROAD

MATCHLINE STA. 192 + 00

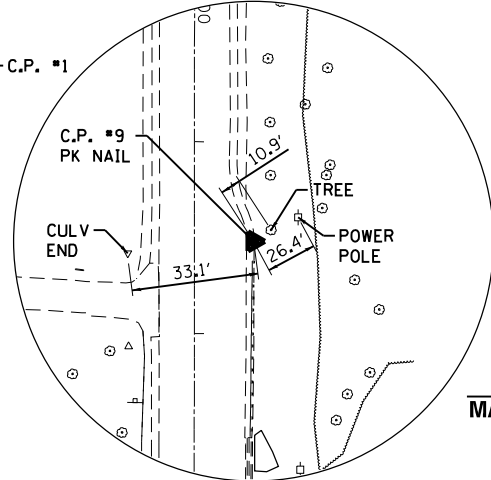
MATCHLINE STA. 192 + 00

BM #2

HARMONY RD.

MATCHLINE STA. 210 + 00

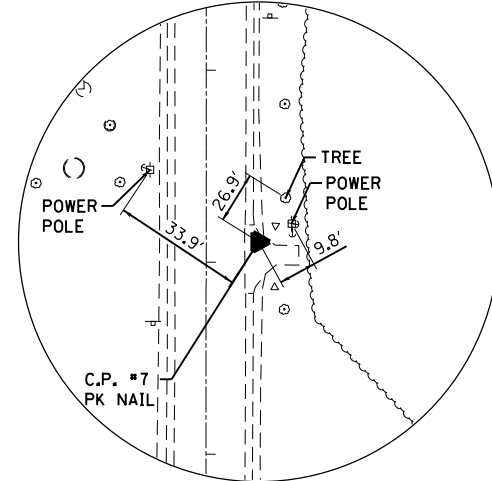
CONTROL POINT #9  
 $N: 2001300.23$   
 $E: 932463.85$   
 $ELEV: 927.28$



POINT ON ALIGNMENT  
 STA. 217+20.97  
 $N: 2001268.60$   
 $E: 933532.97$

MATCHLINE STA. 210 + 00

CONTROL POINT #5  
 $N: 2002101.25$   
 $E: 931510.30$   
 $ELEV: 923.63$



CONTROL POINT #7  
 $N: 2001297.40$   
 $E: 931501.39$   
 $ELEV: 919.92$

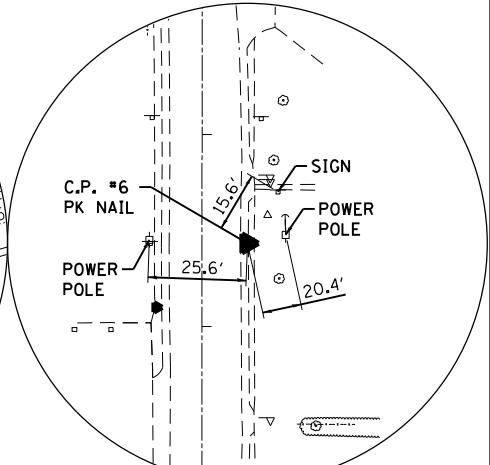
CONTROL POINT #8  
 $N: 2001326.51$   
 $E: 931948.61$   
 $ELEV: 928.02$

**BENCHMARKS**

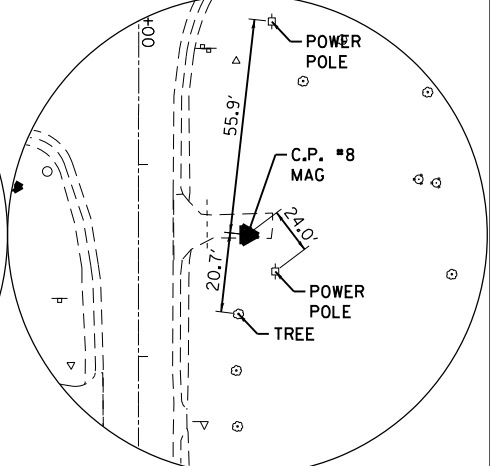
BENCHMARK 1: NAIL IN EAST FACE OF 7TH POWER POLE ON WEST SIDE OF ROUTE 20 AND NORTH OF HARMONY ROAD. ELEVATION = 926.15 (NAVD 88)  
 BENCHMARK 2: RAILROAD SPIKE IN NORTH FACE OF POWER POLE LOCATED ON SOUTH SIDE OF HARMONY ROAD IN FRONT OF THE BUSINESS LOCATED AT 17009 HARMONY ROAD. ELEVATION = 914.60 (NAVD 88)

CONTROL POINT #4  
 $N: 2001807.43$   
 $E: 931591.51$   
 $ELEV: 921.88$

POINT ON ALIGNMENT  
 STA. 516+49.12  
 $N: 2002841.60$   
 $E: 931326.64$



CONTROL POINT #6  
 $N: 2001294.00$   
 $E: 931168.65$   
 $ELEV: 913.72$



CONTROL POINT #8  
 $N: 2001326.51$   
 $E: 931948.61$   
 $ELEV: 928.02$

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: bhartma  
 DATE PLOTTED: 3/29/2018 9:12:43 AM  
 FILE NAME: D:\60701\srh\std00-US20.dgn  
 PLOT DRIVER: ILpdf.plt  
 PEN TABLE: plot.tbl



USER NAME = bhartma  
 FILE NAME = D:\60701\srh\std00-US20.dgn  
 PLOT SCALE = 1" = 100'  
 PLOT DATE = 3/29/2018

DESIGNED - BH  
 DRAWN - DMS  
 CHECKED -  
 DATE - 3/29/18

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

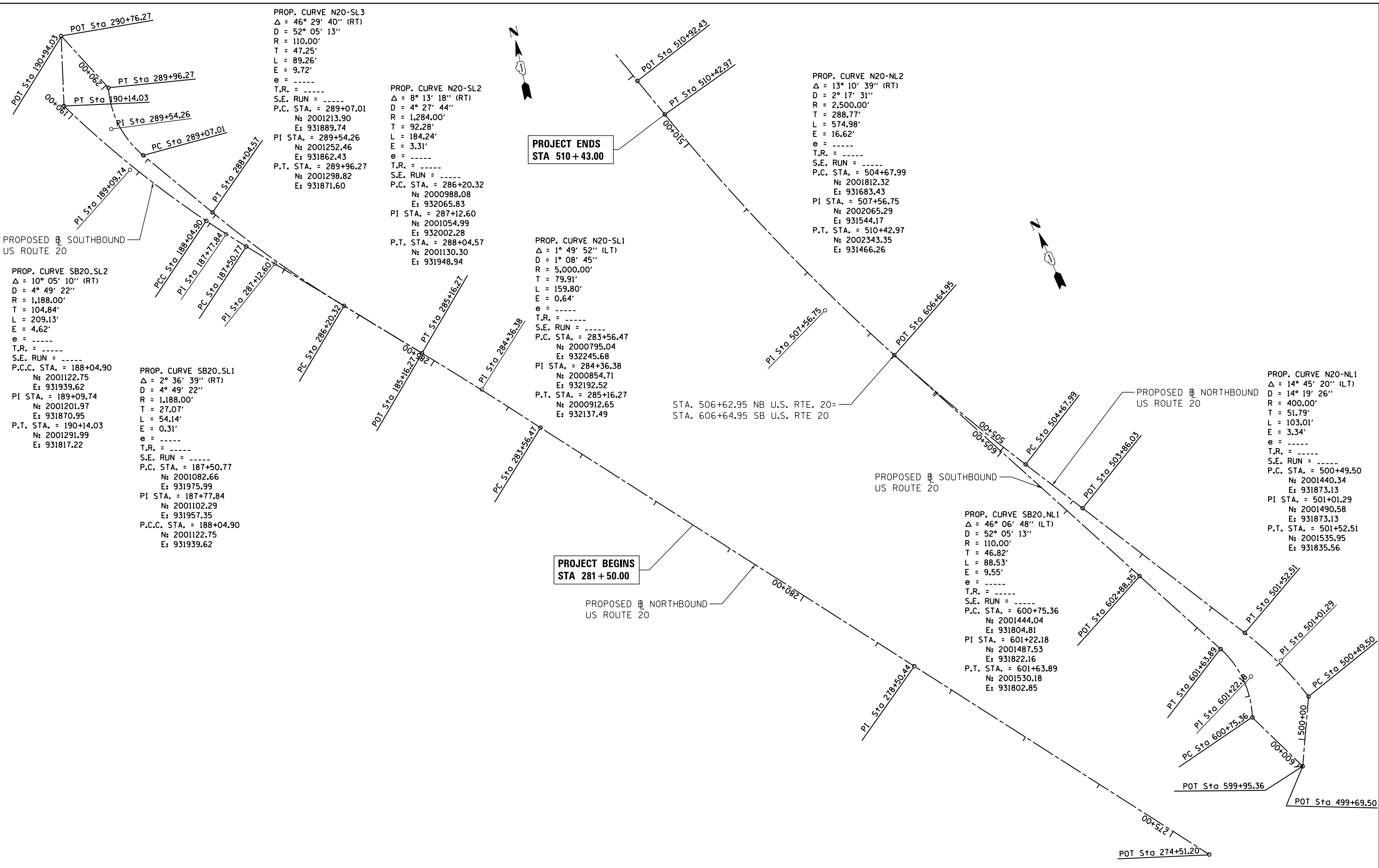
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES AND BENCHMARKS  
 EXISTING US-20 AND HARMONY ROAD ALIGNMENT DATA

SCALE: 1" = 100' SHEET NO. 1 OF 4 SHEETS STA. TO STA.

| F.A.P. RTE.                                   | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---|---------|---------|--------------|-----------|
| 525   | 11-N    | MCHENRY | 135          | 16        |
| CONTRACT NO. 60T01                            |         |         |              |           |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |         |         |              |           |





PROP. CURVE N20-SL3  
 $\Delta = 46^\circ 29' 40''$  (RT)  
 $D = 52^\circ 05' 13''$   
 $R = 110.00'$   
 $T = 47.25'$   
 $L = 89.26'$   
 $E = 9.72'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 P.C. STA. = 289+07.01  
 N: 2001213.90  
 E: 931889.74  
 PI STA. = 289+54.26  
 N: 2001252.46  
 E: 931862.43  
 P.T. STA. = 289+96.27  
 N: 2001298.82  
 E: 931871.60

PROP. CURVE N20-SL2  
 $\Delta = 8^\circ 13' 18''$  (RT)  
 $D = 4^\circ 27' 44''$   
 $R = 1,284.00'$   
 $T = 92.28'$   
 $L = 184.24'$   
 $E = 3.31'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 P.C. STA. = 286+20.32  
 N: 2000988.08  
 E: 932065.83  
 PI STA. = 287+12.60  
 N: 2001054.99  
 E: 932002.28  
 P.T. STA. = 288+04.57  
 N: 2001130.30  
 E: 931948.94

PROP. CURVE N20-SL1  
 $\Delta = 1^\circ 49' 52''$  (LT)  
 $D = 1^\circ 08' 45''$   
 $R = 5,000.00'$   
 $T = 79.91'$   
 $L = 159.80'$   
 $E = 0.64'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 P.C. STA. = 283+56.47  
 N: 2000795.04  
 E: 932245.68  
 PI STA. = 284+36.38  
 N: 2000854.71  
 E: 932192.52  
 P.T. STA. = 285+16.27  
 N: 2000912.65  
 E: 932137.49

PROP. CURVE N20-NL2  
 $\Delta = 13^\circ 10' 39''$  (RT)  
 $D = 2^\circ 17' 31''$   
 $R = 2,500.00'$   
 $T = 288.77'$   
 $L = 574.98'$   
 $E = 16.62'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 P.C. STA. = 504+67.99  
 N: 2001812.32  
 E: 931683.43  
 PI STA. = 507+56.75  
 N: 2002065.29  
 E: 931544.17  
 P.T. STA. = 510+42.97  
 N: 2002343.35  
 E: 931466.26

PROP. CURVE N20-NL1  
 $\Delta = 14^\circ 45' 20''$  (LT)  
 $D = 14^\circ 19' 26''$   
 $R = 400.00'$   
 $T = 51.79'$   
 $L = 103.01'$   
 $E = 3.34'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 P.C. STA. = 500+49.50  
 N: 2001440.34  
 E: 931873.13  
 PI STA. = 501+01.29  
 N: 2001490.58  
 E: 931873.13  
 P.T. STA. = 501+52.51  
 N: 2001535.95  
 E: 931835.56

PROP. CURVE SB20-SL2  
 $\Delta = 10^\circ 05' 10''$  (RT)  
 $D = 4^\circ 49' 22''$   
 $R = 1,188.00'$   
 $T = 104.84'$   
 $L = 209.13'$   
 $E = 4.62'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 P.C.C. STA. = 188+04.90  
 N: 2001122.75  
 E: 931939.62  
 PI STA. = 189+09.74  
 N: 2001201.97  
 E: 931870.95  
 P.T. STA. = 190+14.03  
 N: 2001291.99  
 E: 931817.22

PROP. CURVE SB20-SL1  
 $\Delta = 2^\circ 36' 39''$  (RT)  
 $D = 4^\circ 49' 22''$   
 $R = 1,188.00'$   
 $T = 27.07'$   
 $L = 54.14'$   
 $E = 0.31'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 P.C. STA. = 187+50.77  
 N: 2001082.66  
 E: 931975.99  
 PI STA. = 187+77.84  
 N: 2001102.29  
 E: 931957.35  
 P.C.C. STA. = 188+04.90  
 N: 2001122.75  
 E: 931939.62

PROP. CURVE SB20-NL1  
 $\Delta = 46^\circ 06' 48''$  (LT)  
 $D = 52^\circ 05' 13''$   
 $R = 110.00'$   
 $T = 46.82'$   
 $L = 88.53'$   
 $E = 9.55'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 P.C. STA. = 600+75.36  
 N: 2001444.04  
 E: 931804.81  
 PI STA. = 601+22.18  
 N: 2001487.53  
 E: 931822.16  
 P.T. STA. = 601+63.89  
 N: 2001530.18  
 E: 931802.85

PROJECT ENDS  
 STA 510 + 43.00

PROJECT BEGINS  
 STA 281 + 50.00

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: bhartma  
 DATE PLOTTED: 3/29/2018 9:25:00 AM  
 FILE NAME: D:\60101-sht-01-01-US20.dgn  
 PLOT DRIVER: ILpdf.plt  
 PEN TABLE: plot.tbl

**HRGreen**  
 HRGreen.com  
 Illinois Professional Design Firm  
 #184-001322

|   |                |           |
|---|----------------|-----------|
| USER NAME = bhartma                     | DESIGNED - BH  | REVISED - |
| FILE NAME = D:\60101-sht-01-01-US20.dgn | DRAWN - DMS    | REVISED - |
| PLOT SCALE = 1" = 50'                   | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                   | DATE - 3/29/18 | REVISED - |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT, TIES AND BENCHMARKS  
 US-20 AND HARMONY ROAD ALIGNMENT DATA**

SCALE: 1" = 50' SHEET NO. 2 OF 4 SHEETS STA. TO STA.

|   |              |                |                  |              |
|---|--------------|----------------|------------------|--------------|
| F.A.P. RTE. 525                               | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135 | SHEET NO. 17 |
| CONTRACT NO. 60T01                            |              |                |                  |              |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |              |                |                  |              |



PROP. CURVE EBHARM.WL21  
 $\Delta = 13^\circ 18' 50''$  (LT)  
 $D = 3^\circ 51' 02''$   
 $R = 1,488.00'$   
 $T = 173.67'$   
 $L = 345.77'$   
 $E = 10.10'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 P.C. STA. = 894+66.88  
 $N = 2001268.26$   
 $E = 931176.17$   
 PI STA. = 896+40.55  
 $N = 2001264.32$   
 $E = 931349.79$   
 P.C.C. STA. = 898+12.65  
 $N = 2001300.47$   
 $E = 931519.65$

**PROJECT BEGINS  
 STA 893 + 00.00**

PROP. CURVE WBHARM.WL1  
 $\Delta = 18^\circ 12' 31''$  (LT)  
 $D = 5^\circ 39' 42''$   
 $R = 1,012.00'$   
 $T = 162.17'$   
 $L = 321.61'$   
 $E = 12.91'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 P.C. STA. = 795+66.54  
 $N = 2001277.96$   
 $E = 931275.81$   
 PI STA. = 797+28.72  
 $N = 2001280.64$   
 $E = 931437.96$   
 P.C.C. STA. = 798+88.16  
 $N = 2001333.86$   
 $E = 931591.16$

PROP. CURVE WBHARM.WL2  
 $\Delta = 1^\circ 14' 44''$  (LT)  
 $D = 5^\circ 39' 42''$   
 $R = 1,012.00'$   
 $T = 11.00'$   
 $L = 22.00'$   
 $E = 0.06'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 P.C.C. STA. = 798+88.16  
 $N = 2001333.86$   
 $E = 931591.16$   
 PI STA. = 798+99.16  
 $N = 2001337.46$   
 $E = 931601.55$   
 P.T. STA. = 799+10.16  
 $N = 2001341.30$   
 $E = 931611.86$

PROP. CURVE RAB2  
 $\Delta = 180^\circ 00' 00''$  (LT)  
 $D = 95^\circ 29' 35''$   
 $R = 60.00'$   
 $T = \text{Undefined}$   
 $L = 188.50'$   
 $E = \text{Undefined}$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 P.C.C. STA. = 901+88.50  
 $N = 2001411.66$   
 $E = 931791.89$   
 PI STA. = Undefined  
 $N = \text{Undefined}$   
 $E = \text{Undefined}$   
 P.T. STA. = 903+77.00  
 $N = 2001328.30$   
 $E = 931878.21$

PROP. CURVE WBHARM.EL1  
 $\Delta = 41^\circ 00' 20''$  (LT)  
 $D = 52^\circ 05' 13''$   
 $R = 110.00'$   
 $T = 41.13'$   
 $L = 78.72'$   
 $E = 7.44'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 P.C. STA. = 412+52.00  
 $N = 2001373.94$   
 $E = 931914.96$   
 PI STA. = 412+93.13  
 $N = 2001350.49$   
 $E = 931948.75$   
 P.T. STA. = 413+30.72  
 $N = 2001354.97$   
 $E = 931989.64$

PROP. CURVE WBHARM.EL2  
 $\Delta = 8^\circ 21' 04''$  (RT)  
 $D = 7^\circ 16' 16''$   
 $R = 788.00'$   
 $T = 57.53'$   
 $L = 114.86'$   
 $E = 2.10'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 P.C. STA. = 413+87.16  
 $N = 2001361.11$   
 $E = 932045.74$   
 PI STA. = 414+44.69  
 $N = 2001367.37$   
 $E = 932102.93$   
 P.C.C. STA. = 415+02.01  
 $N = 2001365.26$   
 $E = 932160.42$

PROP. CURVE WBHARM.EL3  
 $\Delta = 11^\circ 05' 51''$  (RT)  
 $D = 7^\circ 16' 16''$   
 $R = 788.00'$   
 $T = 76.55'$   
 $L = 152.62'$   
 $E = 3.71'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 P.C.C. STA. = 415+02.01  
 $N = 2001365.26$   
 $E = 932160.42$   
 PI STA. = 415+78.57  
 $N = 2001362.44$   
 $E = 932236.92$   
 P.T. STA. = 416+54.64  
 $N = 2001344.96$   
 $E = 932311.45$

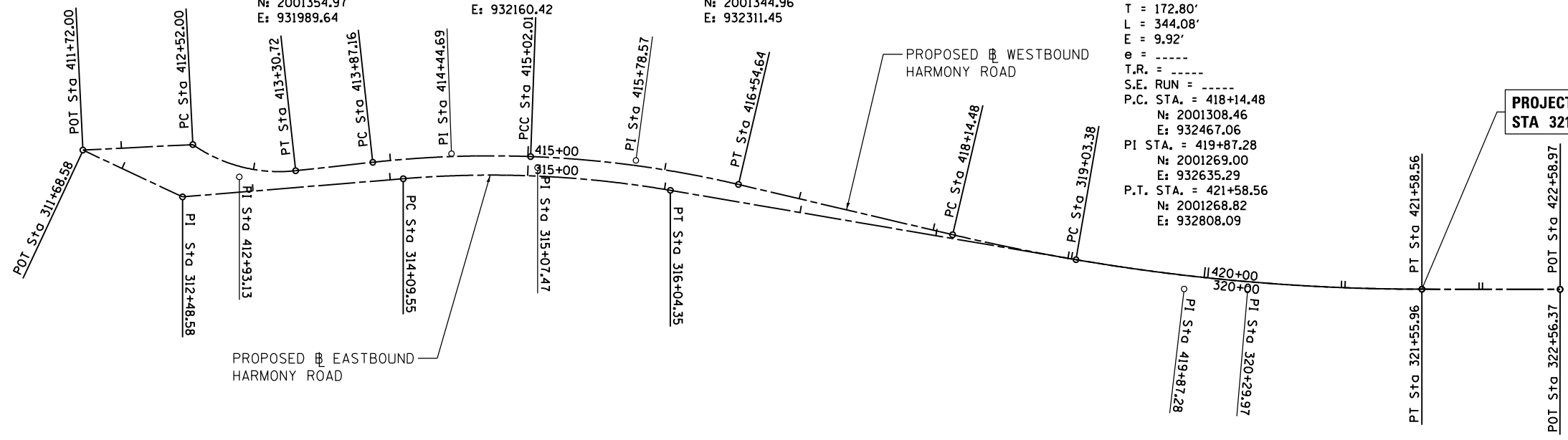
PROP. CURVE EBHARM.WL22  
 $\Delta = 4^\circ 55' 25''$  (LT)  
 $D = 7^\circ 09' 43''$   
 $R = 800.00'$   
 $T = 34.40'$   
 $L = 68.75'$   
 $E = 0.74'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 P.C.C. STA. = 898+12.65  
 $N = 2001300.47$   
 $E = 931519.65$   
 PI STA. = 898+47.04  
 $N = 2001307.63$   
 $E = 931553.29$   
 P.T. STA. = 898+81.40  
 $N = 2001317.65$   
 $E = 931586.20$

PROP. CURVE WBHARM.EL4  
 $\Delta = 13^\circ 08' 34''$  (LT)  
 $D = 3^\circ 49' 11''$   
 $R = 1,500.00'$   
 $T = 172.80'$   
 $L = 344.08'$   
 $E = 9.92'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 P.C. STA. = 418+14.48  
 $N = 2001308.46$   
 $E = 932467.06$   
 PI STA. = 419+87.28  
 $N = 2001269.00$   
 $E = 932635.29$   
 P.T. STA. = 421+58.56  
 $N = 2001268.82$   
 $E = 932808.09$

PROP. CURVE RAB1  
 $\Delta = 180^\circ 00' 00''$  (LT)  
 $D = 95^\circ 29' 35''$   
 $R = 60.00'$   
 $T = \text{Undefined}$   
 $L = 188.50'$   
 $E = \text{Undefined}$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 P.C. STA. = 900+00.00  
 $N = 2001328.30$   
 $E = 931878.21$   
 PI STA. = Undefined  
 $N = \text{Undefined}$   
 $E = \text{Undefined}$   
 P.C.C. STA. = 901+88.50  
 $N = 2001411.66$   
 $E = 931791.89$

PROP. CURVE EBHARM-EL1  
 $\Delta = 14^\circ 25' 13''$  (RT)  
 $D = 7^\circ 24' 09''$   
 $R = 774.00'$   
 $T = 97.92'$   
 $L = 194.80'$   
 $E = 6.17'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 P.C. STA. = 314+09.55  
 $N = 2001349.17$   
 $E = 932067.88$   
 PI STA. = 315+07.47  
 $N = 2001357.22$   
 $E = 932165.46$   
 P.T. STA. = 316+04.35  
 $N = 2001340.71$   
 $E = 932261.98$

PROP. CURVE EBHARM-EL2  
 $\Delta = 9^\circ 38' 52''$  (LT)  
 $D = 3^\circ 49' 11''$   
 $R = 1,500.00'$   
 $T = 126.59'$   
 $L = 252.58'$   
 $E = 5.33'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. RUN = \text{-----}$   
 P.C. STA. = 319+03.38  
 $N = 2001290.29$   
 $E = 932556.73$   
 PI STA. = 320+29.97  
 $N = 2001268.95$   
 $E = 932681.50$   
 P.T. STA. = 321+55.96  
 $N = 2001268.82$   
 $E = 932808.09$



COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: bharmtma  
 DATE PLOTTED: 3/29/2018 9:05:56 AM  
 FILE NAME: D:\60101-sht-01b02-HARM.dgn  
 PLOT DRIVER: ILpdf.plt  
 PEN TABLE: plot.tbl



|   |                |           |
|---|----------------|-----------|
| USER NAME = bharmtma                    | DESIGNED - BH  | REVISED - |
| FILE NAME = D:\60101-sht-01b02-HARM.dgn | DRAWN - DMS    | REVISED - |
| PLOT SCALE = 1" = 50'                   | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                   | DATE - 3/29/18 | REVISED - |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT, TIES AND BENCHMARKS  
 HARMONY ROAD AND ROUNDABOUT ALIGNMENT DATA**

SCALE: 1" = 50' SHEET NO. 3 OF 4 SHEETS STA. TO STA.

|   |              |                |                    |              |
|---|--------------|----------------|--------------------|--------------|
| F.A.P. RTE. 525                               | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135   | SHEET NO. 18 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |              |                | CONTRACT NO. 60T01 |              |



PROP. CURVE HARM.DWY1  
 PI STA. = 10+47.92  
 $\Delta = 51^\circ 37' 59''$  (RT)  
 $D = 179^\circ 02' 58''$   
 $R = 32.00'$   
 $T = 15.48'$   
 $L = 28.84'$   
 $E = 3.55'$   
 $e = \text{-----}$   
 T.R. = -----  
 S.E. RUN = -----  
 P.C. STA. = 10+32.44  
 N: 2001256.78  
 E: 932055.91  
 P.T. STA. = 10+61.27  
 N: 2001268.33  
 E: 932080.27

PROPOSED  $\square$  EASTBOUND  
 HARMONY RD DRIVEWAY

PROP. CURVE HARM.DWY2  
 PI STA. = 12+49.99  
 $\Delta = 77^\circ 02' 04''$  (LT)  
 $D = 179^\circ 02' 58''$   
 $R = 32.00'$   
 $T = 25.47'$   
 $L = 43.02'$   
 $E = 8.90'$   
 $e = \text{-----}$   
 T.R. = -----  
 S.E. RUN = -----  
 P.C. STA. = 12+24.52  
 N: 2001277.61  
 E: 932243.25  
 P.T. STA. = 12+67.54  
 N: 2001304.16  
 E: 932272.97

PROP. CURVE NW2  
 PI STA. = 1601+45.09  
 $\Delta = 44^\circ 10' 39''$  (RT)  
 $D = 88^\circ 08' 50''$   
 $R = 65.00'$   
 $T = 26.38'$   
 $L = 50.12'$   
 $E = 5.15'$   
 $e = \text{-----}$   
 T.R. = -----  
 S.E. RUN = -----  
 P.C.C. STA. = 1601+18.71  
 N: 2001463.94  
 E: 931791.58  
 P.T. STA. = 1601+68.83  
 N: 2001425.29  
 E: 931761.65

PROP. CURVE NW1  
 PI STA. = 1600+83.02  
 $\Delta = 45^\circ 37' 14''$  (RT)  
 $D = 60^\circ 18' 41''$   
 $R = 95.00'$   
 $T = 39.95'$   
 $L = 75.64'$   
 $E = 8.06'$   
 $e = \text{-----}$   
 T.R. = -----  
 S.E. RUN = -----  
 P.C. STA. = 1600+43.07  
 N: 2001537.03  
 E: 931782.40  
 P.T. STA. = 1601+18.71  
 N: 2001463.94  
 E: 931791.58

PROP. CURVE SEC.20257  
 PI STA. = 1205+45.85  
 $\Delta = 2^\circ 11' 44''$  (RT)  
 $D = 7^\circ 35' 56''$   
 $R = 754.00'$   
 $T = 14.45'$   
 $L = 28.89'$   
 $E = 0.14'$   
 $e = \text{-----}$   
 T.R. = -----  
 S.E. RUN = -----  
 P.C.C. STA. = 1205+31.40  
 N: 2001328.19  
 E: 932057.93  
 P.T. STA. = 1205+60.29  
 N: 2001330.46  
 E: 932086.73

PROP. CURVE SEC.20256  
 PI STA. = 1204+99.22  
 $\Delta = 4^\circ 50' 34''$  (RT)  
 $D = 7^\circ 31' 09''$   
 $R = 762.00'$   
 $T = 32.22'$   
 $L = 64.41'$   
 $E = 0.68'$   
 $e = \text{-----}$   
 T.R. = -----  
 S.E. RUN = -----  
 P.C.C. STA. = 1204+67.00  
 N: 2001327.20  
 E: 931993.55  
 P.T. STA. = 1205+31.40  
 N: 2001328.19  
 E: 932057.93

PROP. CURVE NE3  
 PI STA. = 1403+02.54  
 $\Delta = 25^\circ 39' 33''$  (RT)  
 $D = 88^\circ 08' 50''$   
 $R = 65.00'$   
 $T = 14.80'$   
 $L = 29.11'$   
 $E = 1.66'$   
 $e = \text{-----}$   
 T.R. = -----  
 S.E. RUN = -----  
 P.C.C. STA. = 1402+87.74  
 N: 2001396.61  
 E: 931918.73  
 P.T. STA. = 1403+16.85  
 N: 2001420.59  
 E: 931902.66

PROP. CURVE NE4  
 PI STA. = 1404+23.11  
 $\Delta = 10^\circ 17' 07''$  (LT)  
 $D = 14^\circ 19' 26''$   
 $R = 400.00'$   
 $T = 36.00'$   
 $L = 71.80'$   
 $E = 1.62'$   
 $e = \text{-----}$   
 T.R. = -----  
 S.E. RUN = -----  
 P.C. STA. = 1403+87.11  
 N: 2001486.20  
 E: 931877.50  
 P.T. STA. = 1404+58.92  
 N: 2001550.58  
 E: 931845.93

PROP. CURVE NE2  
 PI STA. = 1402+51.31  
 $\Delta = 46^\circ 42' 30''$  (RT)  
 $D = 60^\circ 18' 41''$   
 $R = 95.00'$   
 $T = 41.02'$   
 $L = 77.45'$   
 $E = 8.48'$   
 $e = \text{-----}$   
 T.R. = -----  
 S.E. RUN = -----  
 P.C. STA. = 1402+10.29  
 N: 2001370.84  
 E: 931989.50  
 P.C.C. STA. = 1402+87.74  
 N: 2001396.61  
 E: 931918.73

PROP. CURVE NE1  
 PI STA. = 1400+57.29  
 $\Delta = 8^\circ 06' 43''$  (LT)  
 $D = 7^\circ 05' 28''$   
 $R = 1,000.00'$   
 $T = 32.28'$   
 $L = 64.54'$   
 $E = 0.52'$   
 $e = \text{-----}$   
 T.R. = -----  
 S.E. RUN = -----  
 P.C. STA. = 1400+00.00  
 N: 2001383.00  
 E: 932198.56  
 P.T. STA. = 1401+14.40  
 N: 2001384.41  
 E: 932084.27

PROP. CURVE NW4  
 PI STA. = 1602+73.10  
 $\Delta = 3^\circ 41' 52''$  (RT)  
 $D = 5^\circ 43' 46''$   
 $R = 1,000.00'$   
 $T = 32.28'$   
 $L = 64.54'$   
 $E = 0.52'$   
 $e = \text{-----}$   
 T.R. = -----  
 S.E. RUN = -----  
 P.C.C. STA. = 1602+40.82  
 N: 2001391.38  
 E: 931698.17  
 P.T. STA. = 1603+05.36  
 N: 2001372.43  
 E: 931636.49

PROP. CURVE NW3  
 PI STA. = 1602+04.84  
 $\Delta = 4^\circ 07' 28''$  (RT)  
 $D = 5^\circ 43' 46''$   
 $R = 1,000.00'$   
 $T = 36.01'$   
 $L = 71.99'$   
 $E = 0.65'$   
 $e = \text{-----}$   
 T.R. = -----  
 S.E. RUN = -----  
 P.C.C. STA. = 1601+68.83  
 N: 2001425.29  
 E: 931761.65  
 P.T. STA. = 1602+40.82  
 N: 2001391.38  
 E: 931698.17

PROP. CURVE SWC.20251  
 PI STA. = 1801+08.59  
 $\Delta = 8^\circ 13' 35''$  (LT)  
 $D = 3^\circ 47' 40''$   
 $R = 1,510.00'$   
 $T = 108.59'$   
 $L = 216.80'$   
 $E = 3.90'$   
 $e = \text{-----}$   
 T.R. = -----  
 S.E. RUN = -----  
 P.C. STA. = 1800+00.00  
 N: 2001253.17  
 E: 931358.16  
 P.T. STA. = 1802+16.80  
 N: 2001289.85  
 E: 931571.65

PROP. CURVE SWC.20252  
 PI STA. = 1803+85.83  
 $\Delta = 49^\circ 58' 47''$  (RT)  
 $D = 60^\circ 18' 41''$   
 $R = 95.00'$   
 $T = 44.28'$   
 $L = 82.87'$   
 $E = 9.81'$   
 $e = \text{-----}$   
 T.R. = -----  
 S.E. RUN = -----  
 P.C. STA. = 1803+41.55  
 N: 2001332.14  
 E: 931688.76  
 P.T. STA. = 1804+24.42  
 N: 2001318.99  
 E: 931767.94

PROP. CURVE SWC.20253  
 PI STA. = 1804+32.55  
 $\Delta = 15^\circ 38' 30''$  (RT)  
 $D = 229^\circ 10' 59''$   
 $R = 25.00'$   
 $T = 3.43'$   
 $L = 6.82'$   
 $E = 0.23'$   
 $e = \text{-----}$   
 T.R. = -----  
 S.E. RUN = -----  
 P.C. STA. = 1804+29.11  
 N: 2001316.34  
 E: 931771.82  
 P.T. STA. = 1804+35.94  
 N: 2001311.76  
 E: 931776.85

PROP. CURVE SWC.20254  
 PI STA. = 1806+79.43  
 $\Delta = 5^\circ 55' 09''$  (LT)  
 $D = 4^\circ 44' 35''$   
 $R = 1,208.00'$   
 $T = 62.45'$   
 $L = 124.80'$   
 $E = 1.61'$   
 $e = \text{-----}$   
 T.R. = -----  
 S.E. RUN = -----  
 P.C. STA. = 1806+16.97  
 N: 2001163.65  
 E: 931880.37  
 P.T. STA. = 1807+41.77  
 N: 2001068.89  
 E: 931961.49

PROP. CURVE SEC.20254  
 PI STA. = 1203+65.08  
 $\Delta = 66^\circ 34' 10''$  (RT)  
 $D = 286^\circ 28' 44''$   
 $R = 20.00'$   
 $T = 13.13'$   
 $L = 23.24'$   
 $E = 3.92'$   
 $e = \text{-----}$   
 T.R. = -----  
 S.E. RUN = -----  
 P.C.C. STA. = 1203+51.95  
 N: 2001288.65  
 E: 931889.70  
 P.T. STA. = 1203+75.19  
 N: 2001304.86  
 E: 931904.51

PROP. CURVE SEC.20253  
 PI STA. = 1203+20.41  
 $\Delta = 39^\circ 42' 51''$  (RT)  
 $D = 60^\circ 18' 41''$   
 $R = 95.00'$   
 $T = 34.31'$   
 $L = 65.85'$   
 $E = 6.01'$   
 $e = \text{-----}$   
 T.R. = -----  
 S.E. RUN = -----  
 P.C.C. STA. = 1202+86.10  
 N: 2001225.24  
 E: 931901.71  
 P.T. STA. = 1203+51.95  
 N: 2001288.65  
 E: 931889.70

PROP. CURVE SEC.20251  
 PI STA. = 1201+03.02  
 $\Delta = 9^\circ 20' 01''$  (RT)  
 $D = 4^\circ 30' 24''$   
 $R = 1,262.00'$   
 $T = 103.02'$   
 $L = 205.58'$   
 $E = 4.20'$   
 $e = \text{-----}$   
 T.R. = -----  
 S.E. RUN = -----  
 P.C. STA. = 1200+00.00  
 N: 2001003.24  
 E: 932081.78  
 P.T. STA. = 1202+05.58  
 N: 2001163.14  
 E: 931952.94

PROP. CURVE SEC.20255  
 PI STA. = 1204+61.93  
 $\Delta = 3^\circ 52' 07''$  (RT)  
 $D = 38^\circ 11' 50''$   
 $R = 150.00'$   
 $T = 5.07'$   
 $L = 10.13'$   
 $E = 0.09'$   
 $e = \text{-----}$   
 T.R. = -----  
 S.E. RUN = -----  
 P.C. STA. = 1204+56.87  
 N: 2001325.03  
 E: 931983.66  
 P.T. STA. = 1204+67.00  
 N: 2001327.20  
 E: 931993.55

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: bhartma  
 DATE PLOTTED: 3/29/2018 9:18:02 AM  
 FILE NAME: D:\60701\sh-t-01b-03-CURBS.dgn  
 PLOT DRIVER: ILpdf.plt  
 PEN TABLE: plot.tbl



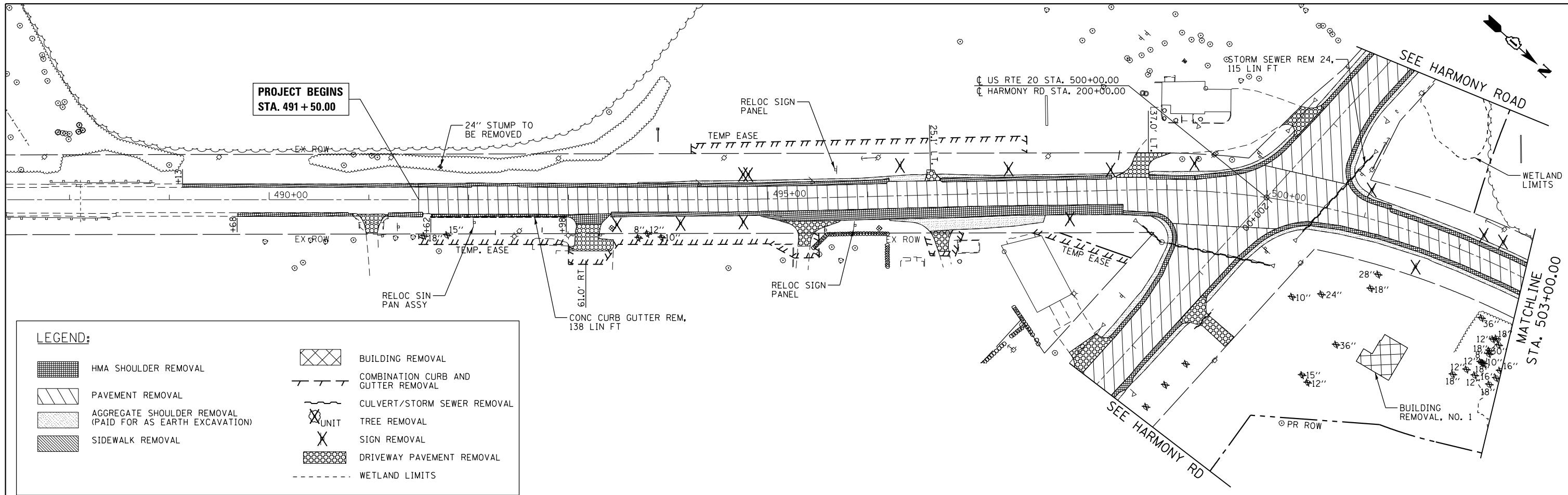
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| USER NAME = bhartma                        | DESIGNED - BH  | REVISED - |
| FILE NAME = D:\60701\sh-t-01b-03-CURBS.dgn | DRAWN - DMS    | REVISED - |
| PLOT SCALE = 1" = 50'                      | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                      | DATE - 3/29/18 | REVISED - |

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES AND BENCHMARKS  
 CURB ALIGNMENT DATA

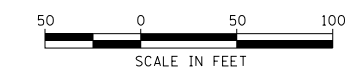
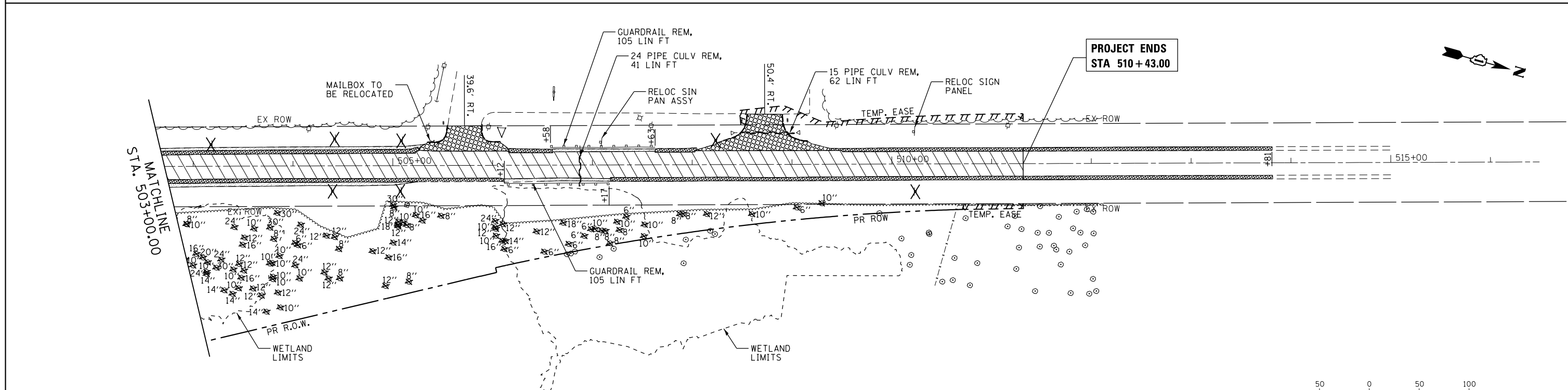
SCALE: 1" = 50' SHEET NO. 4 OF 4 SHEETS STA. TO STA.

|   |              |                |                    |              |
|---|--------------|----------------|--------------------|--------------|
| F.A.P. RTE. 525                               | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135   | SHEET NO. 19 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |              |                | CONTRACT NO. 60T01 |              |



**LEGEND:**

|  |  |                                     |
|--|--|-------------------------------------|
|  |  | BUILDING REMOVAL                    |
|  |  | COMBINATION CURB AND GUTTER REMOVAL |
|  |  | CULVERT/STORM SEWER REMOVAL         |
|  |  | TREE REMOVAL                        |
|  |  | SIGN REMOVAL                        |
|  |  | DRIVEWAY PAVEMENT REMOVAL           |
|  |  | WETLAND LIMITS                      |



COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: bhartma  
 DATE PLOTTED: 3/29/2018 9:13:10 AM  
 FILE NAME: D:\60701\sh-r-em-01.dgn  
 PLOT DRIVER: ILpdf.plt  
 PEN TABLE: plot.tbl



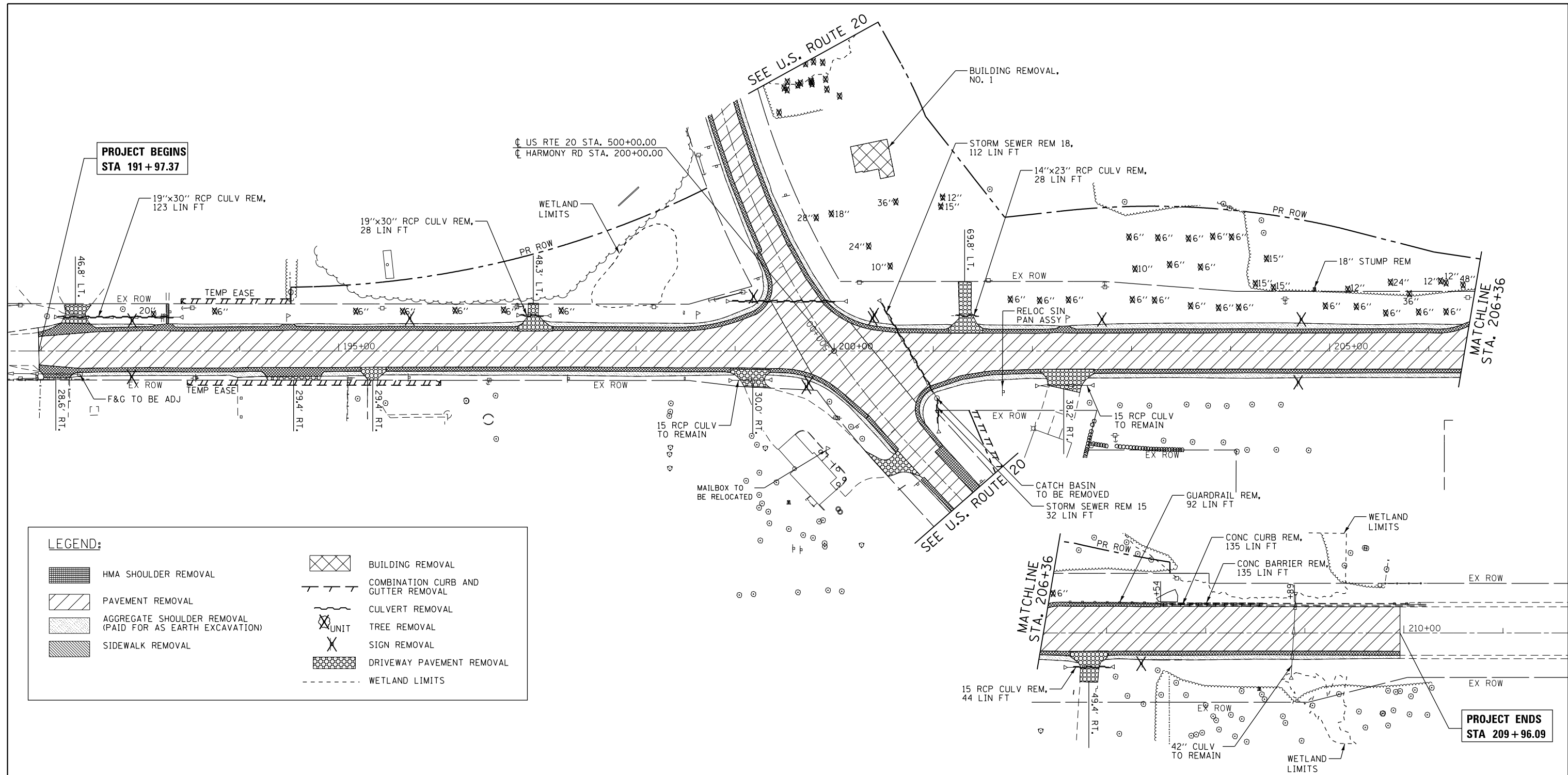
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|-------------------------------------|----------------|-----------|
| USER NAME = bhartma                 | DESIGNED - BH  | REVISED - |
| FILE NAME = D:\60701\sh-r-em-01.dgn | DRAWN - DMS    | REVISED - |
| PLOT SCALE = 1" = 50'               | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018               | DATE - 3/29/18 | REVISED - |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN  
 US-20**

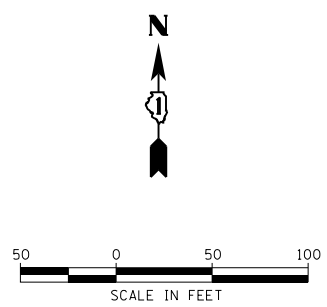
SCALE: 1" = 50' SHEET NO. 1 OF 2 SHEETS STA. TO STA.

|   |              |                |                  |              |
|---|--------------|----------------|------------------|--------------|
| F.A.P. RTE. 525                               | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135 | SHEET NO. 20 |
| CONTRACT NO. 60T01                            |              |                |                  |              |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |              |                |                  |              |



**LEGEND:**

|  |   |  |                                     |
|--|---|--|-------------------------------------|
|  | HMA SHOULDER REMOVAL                                      |  | BUILDING REMOVAL                    |
|  | PAVEMENT REMOVAL  |  | COMBINATION CURB AND GUTTER REMOVAL |
|  | AGGREGATE SHOULDER REMOVAL (PAID FOR AS EARTH EXCAVATION) |  | CULVERT REMOVAL                     |
|  | SIDEWALK REMOVAL  |  | TREE REMOVAL                        |
|  |   |  | SIGN REMOVAL                        |
|  |   |  | DRIVEWAY PAVEMENT REMOVAL           |
|  |   |  | WETLAND LIMITS                      |



COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen  
 DATE PLOTTED: 3/29/2018 9:51:18 AM  
 FILE NAME: D:\60101\sh-r-em-02.dgn  
 PLOT DRIVER: ILpdf.plt  
 PEN TABLE: plot.tbl



|                                     |                |           |
|-------------------------------------|----------------|-----------|
| USER NAME = bhartma                 | DESIGNED - BH  | REVISED - |
| FILE NAME = D:\60101\sh-r-em-02.dgn | DRAWN - DMS    | REVISED - |
| PLOT SCALE = 1" = 50'               | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018               | DATE - 3/29/18 | REVISED - |

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

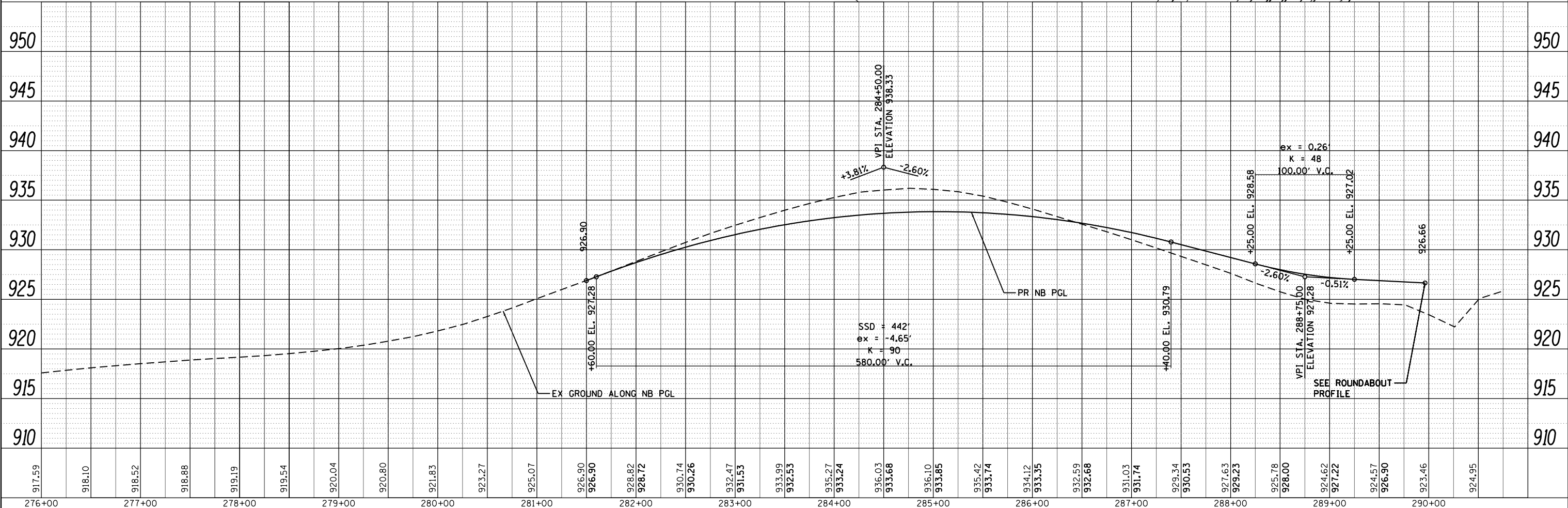
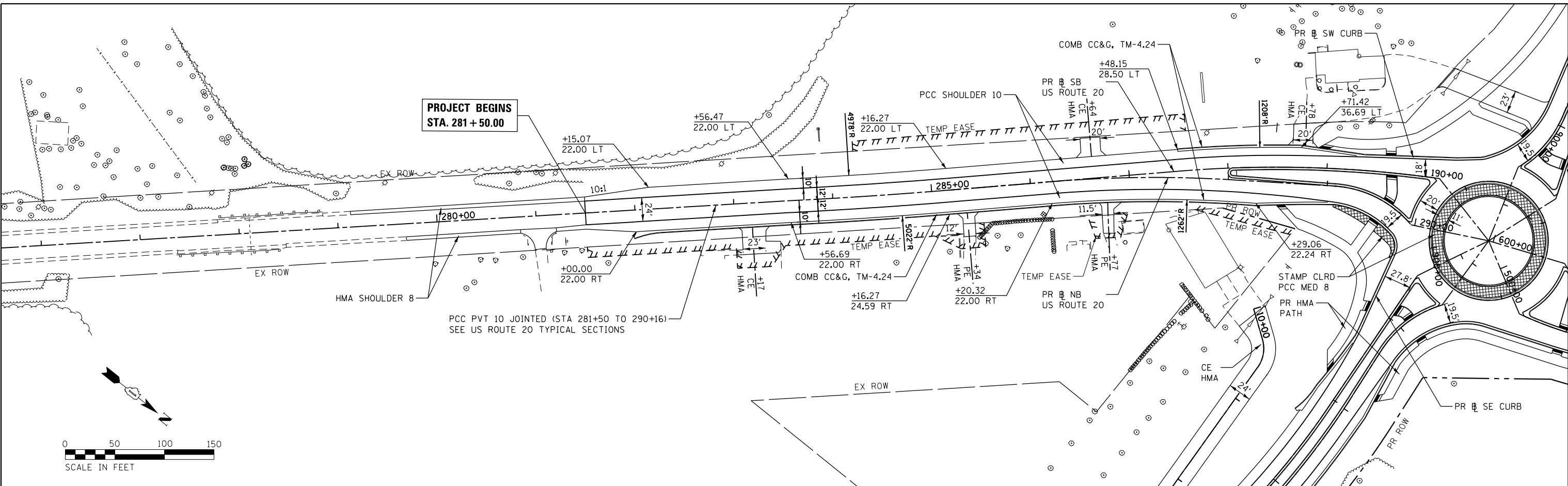
|                     |                         |
|---------------------|-------------------------|
| <b>REMOVAL PLAN</b> |                         |
| <b>HARMONY ROAD</b> |                         |
| SCALE: 1" = 50'     | SHEET NO. 2 OF 2 SHEETS |
| STA.                | TO STA.                 |

|   |              |                |                  |              |
|---|--------------|----------------|------------------|--------------|
| F.A.P. RTE. 525                               | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135 | SHEET NO. 21 |
| CONTRACT NO. 60T01                            |              |                |                  |              |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |              |                |                  |              |

| PLAN      | DATE |
|-----------|------|
| SURVEYED  |      |
| PLOTTED   |      |
| ALIGNED   |      |
| CHECKED   |      |
| FILE NAME |      |
| NO.       |      |

| PROFILE        | DATE |
|----------------|------|
| SURVEYED       |      |
| PLOTTED        |      |
| GRADES CHECKED |      |
| NOTE BOOK      |      |
| NO.            |      |

COMPANY NAME: #PROJECT\_CONTACT#  
 CLIENT: #CLIENT#  
 DATE PLOTTED: 3/29/2018 9:35:32 AM  
 FILE NAME: D:\60101-sht-plan\prf01-nb-20-sl.dgn  
 PLOT SCALE: 1" = 50'  
 PEN TABLE:



| USER NAME | DESIGNED | REVISOR |
|-----------|----------|---------|
| bhartha   | BH       |         |
|           | DMS      |         |
|           |          |         |
|           |          |         |
|           |          |         |

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

US ROUTE 20 AT HARMONY ROAD  
 NORTHBOUND US ROUTE 20 SOUTH LEG PLAN AND PROFILE

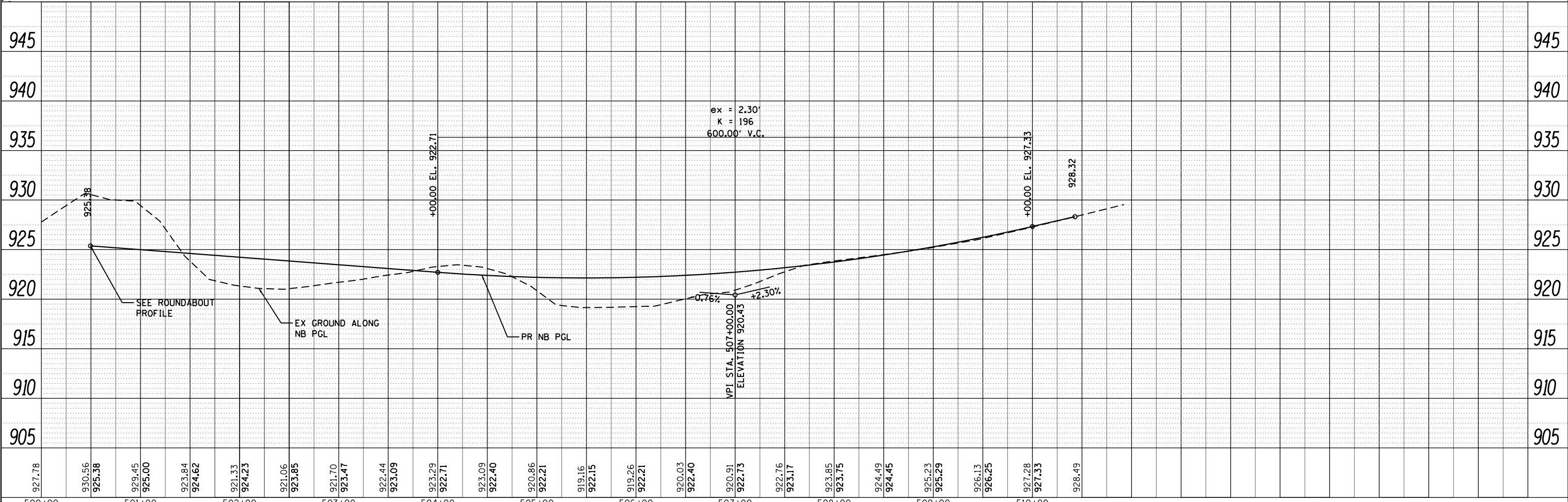
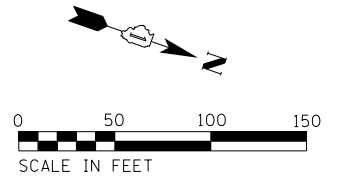
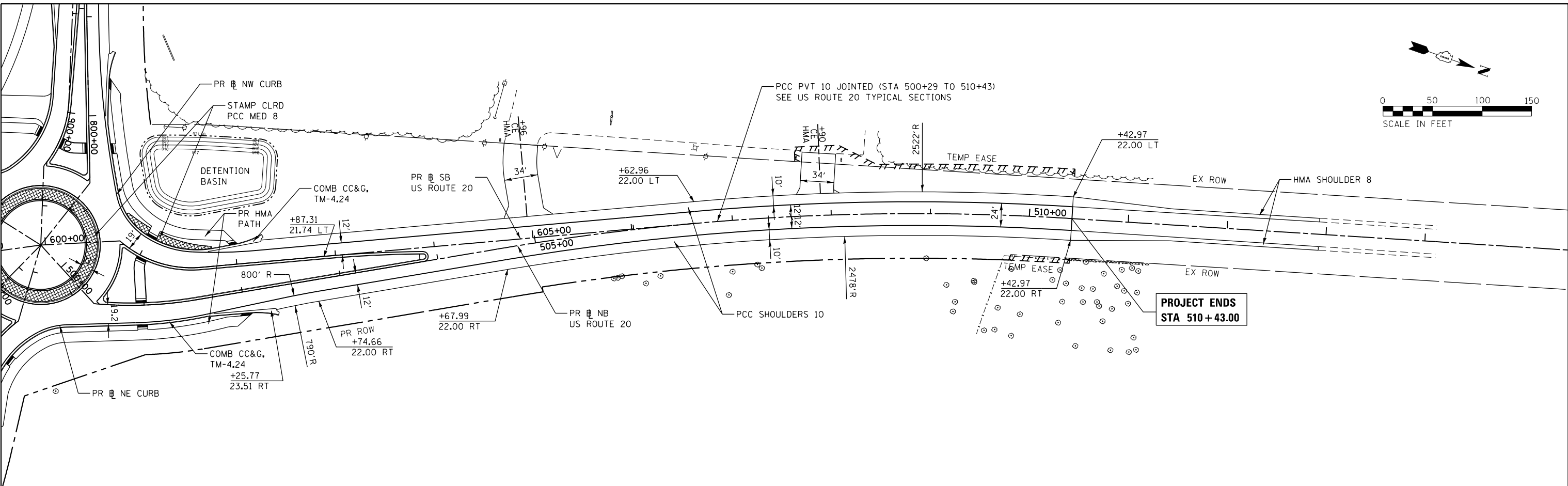
| F.A.P. RTE.               | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|---------|--------------|-----------|
| 525                       | 11-N    | MCHENRY | 135          | 22        |
| CONTRACT NO.              |         |         | 60T01        |           |
| ILLINOIS FED. AID PROJECT |         |         |              |           |

SCALE: 1" = 50' SHEET NO. 1 OF 10 SHEETS STA. TO STA.

|      |          |    |      |
|------|----------|----|------|
| PLAN | SURVEYED | BY | DATE |
|      | PLOTTED  |    |      |
|      | ALIGNED  |    |      |
|      | CHECKED  |    |      |
|      | FILED    |    |      |
|      | NO.      |    |      |

|         |          |    |      |
|---------|----------|----|------|
| PROFILE | SURVEYED | BY | DATE |
|         | PLOTTED  |    |      |
|         | GRADES   |    |      |
|         | CHECKED  |    |      |
|         | FILED    |    |      |
|         | NO.      |    |      |

COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen.com  
 CLIENT: HRGreen.com  
 DATE PLOTTED: 3/29/2018 9:33:38 AM  
 FILE NAME: D:\60101-sht-plnpr-f02-nb-20-nl.dgn  
 PLOT NUMBER: 11-N  
 PEN TABLE: pen.tbl



|        |        |
|--------|--------|
| 500+00 | 927.78 |
| 501+00 | 930.56 |
|        | 925.38 |
|        | 929.45 |
|        | 925.00 |
| 502+00 | 923.84 |
|        | 924.62 |
|        | 921.33 |
|        | 924.23 |
|        | 921.06 |
|        | 923.85 |
| 503+00 | 921.70 |
|        | 923.47 |
|        | 922.44 |
|        | 923.09 |
| 504+00 | 923.29 |
|        | 922.71 |
|        | 923.09 |
|        | 922.40 |
| 505+00 | 920.86 |
|        | 922.21 |
|        | 919.16 |
|        | 922.15 |
| 506+00 | 919.26 |
|        | 922.21 |
|        | 920.03 |
|        | 922.40 |
| 507+00 | 920.91 |
|        | 922.73 |
|        | 922.76 |
|        | 923.17 |
| 508+00 | 923.85 |
|        | 923.75 |
|        | 924.49 |
|        | 924.45 |
| 509+00 | 925.23 |
|        | 925.29 |
|        | 926.13 |
|        | 926.25 |
| 510+00 | 927.28 |
|        | 927.33 |
|        | 928.49 |

|   |                |           |
|---|----------------|-----------|
| USER NAME = bharto                              | DESIGNED - BH  | REVISED - |
| FILE NAME = D:\60101-sht-plnpr-f02-nb-20-nl.dgn | DRAWN - DMS    | REVISED - |
| PLOT SCALE = 1" = 50'                           | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                           | DATE - 3/29/18 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20 AT HARMONY ROAD  
NORTHBOUND US ROUTE 20 NORTH LEG PLAN AND PROFILE**

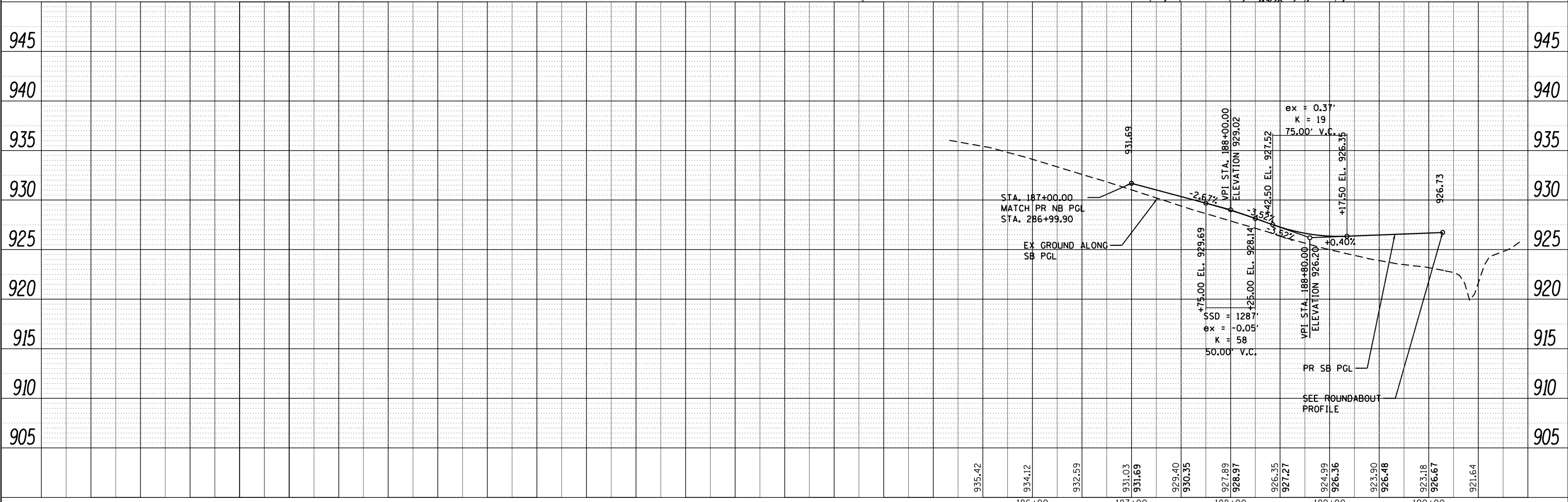
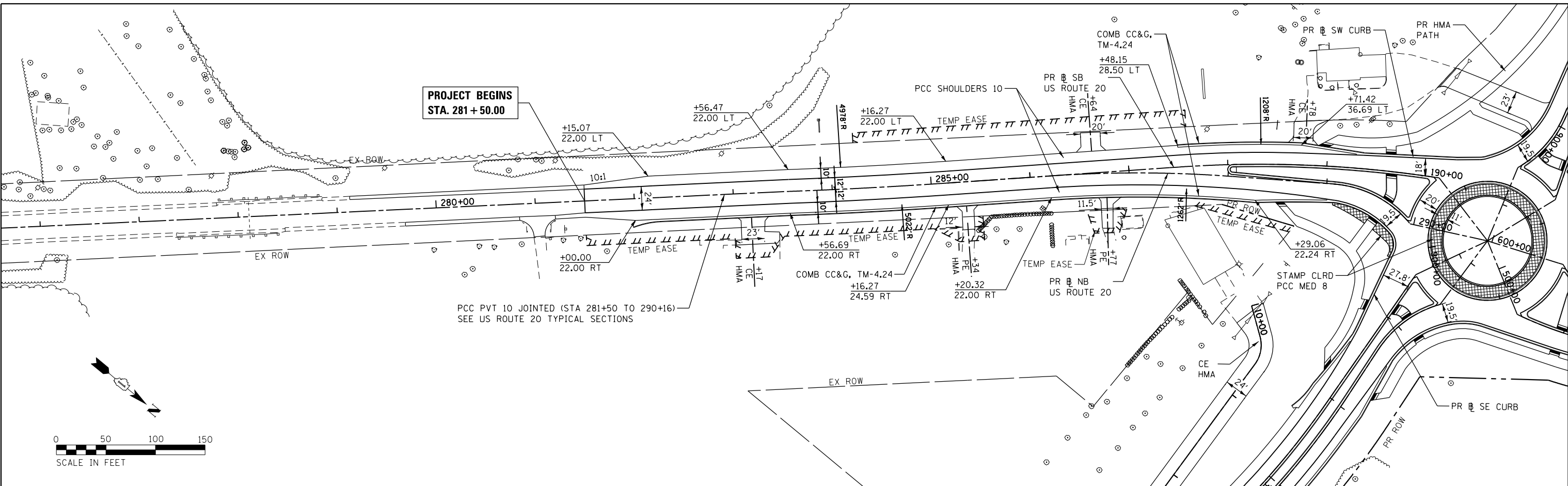
SCALE: 1" = 50'    SHEET NO. 2 OF 10 SHEETS    STA.    TO STA.

|                    |              |                |                           |              |
|--------------------|--------------|----------------|---------------------------|--------------|
| F.A.P. RTE. 525    | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135          | SHEET NO. 23 |
| CONTRACT NO. 60T01 |              |                | ILLINOIS FED. AID PROJECT |              |

|      |           |      |
|------|-----------|------|
| PLAN | SURVEYED  | DATE |
|      | PLOTTED   |      |
|      | ALIGNED   |      |
|      | CHECKED   |      |
|      | FILED     |      |
|      | NO. _____ |      |

|         |                             |      |
|---------|-----------------------------|------|
| PROFILE | SURVEYED                    | DATE |
|         | PLOTTED                     |      |
|         | GRADES CHECKED              |      |
|         | STRUCTURE NOTATIONS CHECKED |      |
|         | NO. _____                   |      |

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: bhartma  
 CLIENT: STATE OF ILLINOIS  
 DATE PLOTTED: 3/29/2018 9:34:44 AM  
 FILE NAME: D:\60701\sb\1\plan\p03-sb-20-sl.dgn  
 PLOT DATE: 3/29/2018  
 PLOT SCALE: 1" = 50'



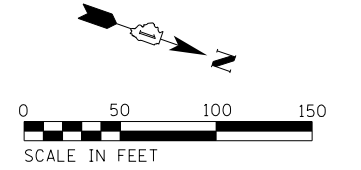
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|---|----------------|-----------|---------------------------|----------------|------------------|--------------------|----------------|
| USER NAME = bhartma                             | DESIGNED - BH  | REVISED - | F.A.P. RT. = 525          | SECTION = 11-N | COUNTY = MCHENRY | TOTAL SHEETS = 135 | SHEET NO. = 24 |
| FILE NAME = D:\60701\sb\1\plan\p03-sb-20-sl.dgn | DRAWN - DMS    | REVISED - | CONTRACT NO. 60T01        |                |                  |                    |                |
| PLOT SCALE = 1" = 50'                           | CHECKED -      | REVISED - | ILLINOIS FED. AID PROJECT |                |                  |                    |                |
| PLOT DATE = 3/29/2018                           | DATE = 3/29/18 | REVISED - |                           |                |                  |                    |                |

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

US ROUTE 20 AT HARMONY ROAD  
 SOUTHBOUND US ROUTE 20 SOUTH LEG PLAN AND PROFILE

SCALE: 1" = 50' SHEET NO. 3 OF 10 SHEETS STA. TO STA.

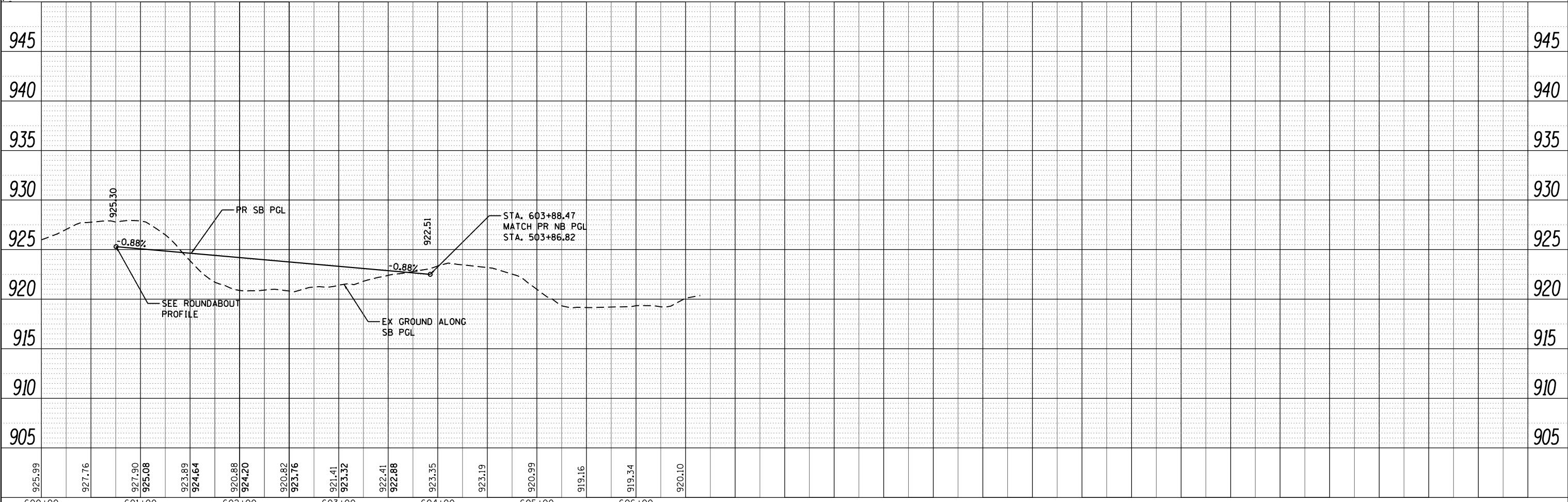
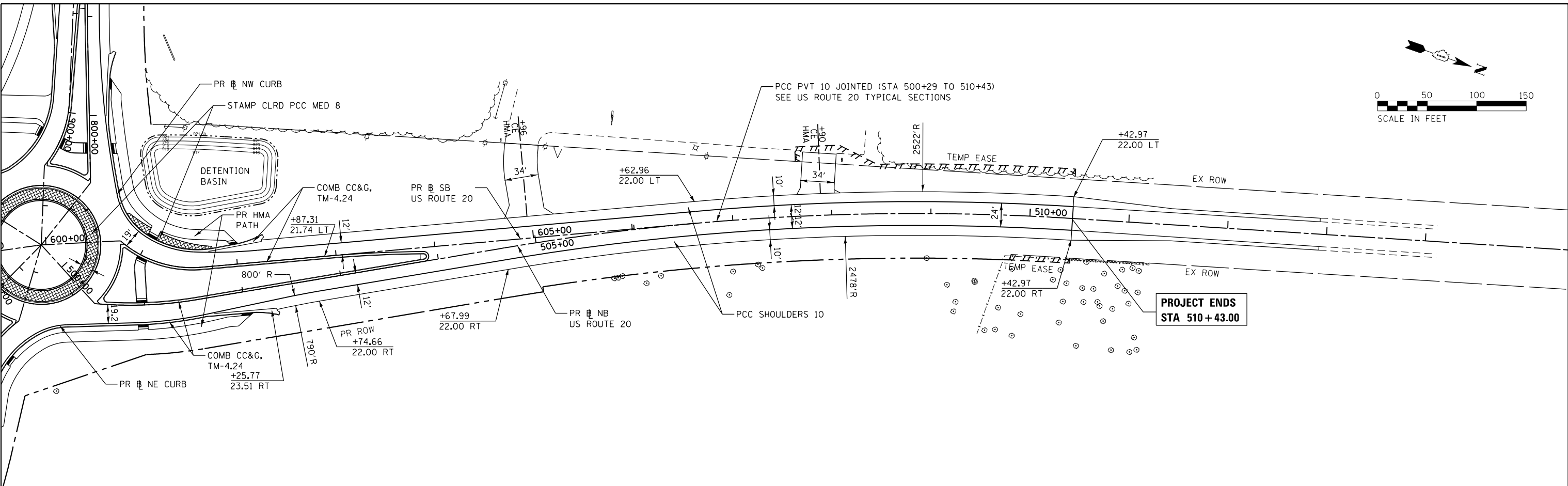




|      |          |    |      |
|------|----------|----|------|
| PLAN | SURVEYED | BY | DATE |
|      | PLOTTED  |    |      |
|      | ALIGNED  |    |      |
|      | CHECKED  |    |      |
|      | FILED    |    |      |
|      | NO.      |    |      |

|         |          |    |      |
|---------|----------|----|------|
| PROFILE | SURVEYED | BY | DATE |
|         | PLOTTED  |    |      |
|         | GRADES   |    |      |
|         | CHECKED  |    |      |
|         | FILED    |    |      |
|         | NO.      |    |      |

COMPANY NAME: HRGreen  
 PROJECT CONTACT: bhartma  
 CLIENT: MCHENRY COUNTY  
 DATE PLOTTED: 3/29/2018 9:55:51 AM  
 FILE NAME: D:\60101\sh-t-plnpr-f04-SB-20-NL.dgn  
 PLOT NUMBER: 4  
 PEN TABLE: pen.tbl



|        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| 600+00 | 925.99 | 927.76 | 927.90 | 925.08 | 923.89 | 924.64 | 920.88 | 924.20 | 920.62 | 923.76 | 921.41 | 923.32 | 922.41 | 922.88 | 923.35 | 923.19 | 920.99 | 919.16 | 919.34 | 920.10 |  |
| 601+00 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| 602+00 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| 603+00 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| 604+00 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| 605+00 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| 606+00 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |

|  |                |           |
|--|----------------|-----------|
| USER NAME = bhartma                              | DESIGNED - BH  | REVISED - |
| FILE NAME = D:\60101\sh-t-plnpr-f04-SB-20-NL.dgn | DRAWN - DMS    | REVISED - |
| PLOT SCALE = 1" = 50'                            | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                            | DATE - 3/29/18 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20 AT HARMONY ROAD  
SOUTHBOUND US ROUTE 20 NORTH LEG PLAN AND PROFILE**

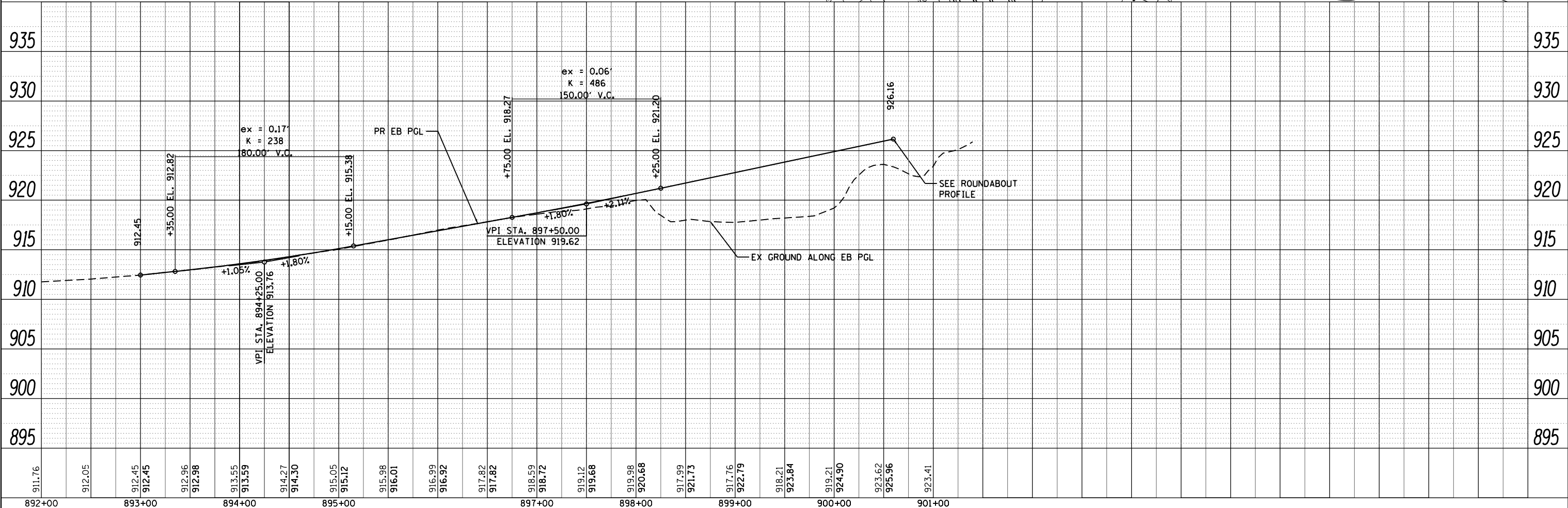
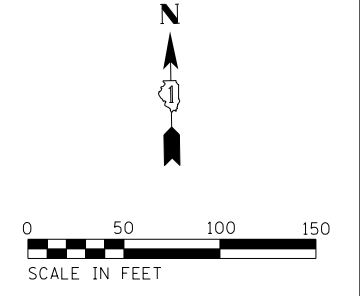
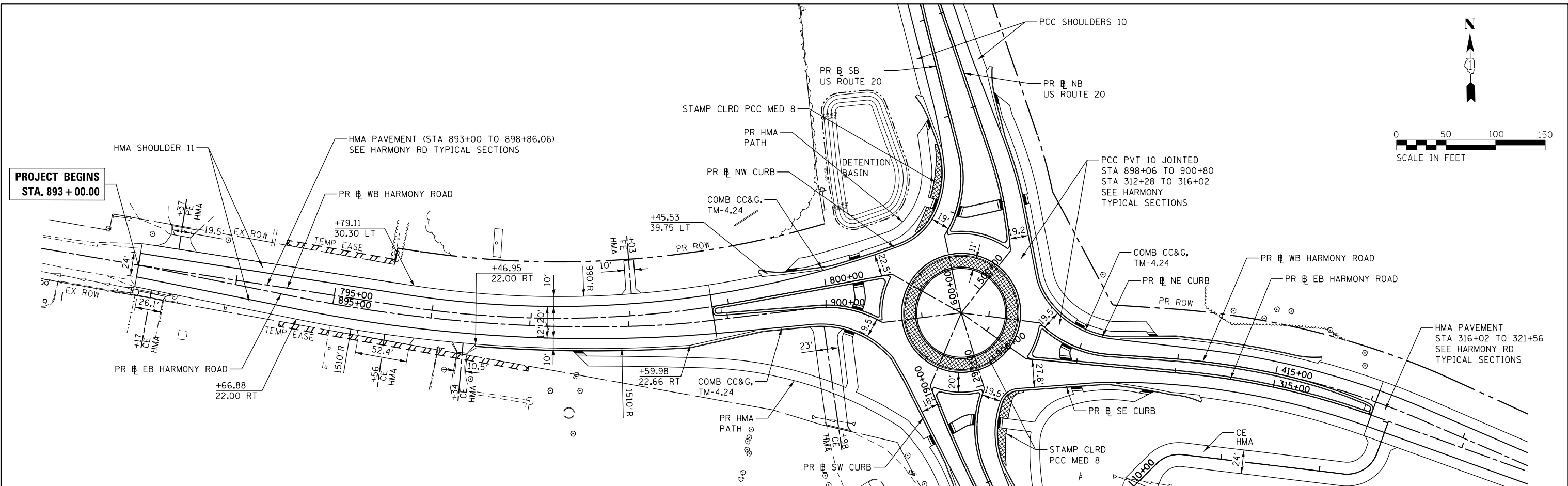
SCALE: 1" = 50'    SHEET NO. 4 OF 10 SHEETS    STA.    TO STA.

|                    |              |                |                           |              |
|--------------------|--------------|----------------|---------------------------|--------------|
| F.A.P. RTE. 525    | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135          | SHEET NO. 25 |
| CONTRACT NO. 60T01 |              |                | ILLINOIS FED. AID PROJECT |              |

|      |          |    |      |
|------|----------|----|------|
| PLAN | SURVEYED | BY | DATE |
|      | PLOTTED  |    |      |
|      | ALIGNED  |    |      |
|      | CHECKED  |    |      |
|      | NO. 1    |    |      |
|      | NO. 2    |    |      |
|      | NO. 3    |    |      |
|      | NO. 4    |    |      |
|      | NO. 5    |    |      |

|         |          |    |      |
|---------|----------|----|------|
| PROFILE | SURVEYED | BY | DATE |
|         | PLOTTED  |    |      |
|         | GRADES   |    |      |
|         | CHECKED  |    |      |
|         | NO. 1    |    |      |
|         | NO. 2    |    |      |
|         | NO. 3    |    |      |
|         | NO. 4    |    |      |
|         | NO. 5    |    |      |

COMPANY NAME: HRGreen  
 PROJECT CONTACT: bhartma  
 CLIENT: STATE OF ILLINOIS  
 DATE PLOTTED: 3/29/2018 9:55:59 AM  
 FILE NAME: D:\60101-sht-pln-pr-f05-EB HARM-W.L.dgn  
 PLOT NUMBER: 50101-PR-F05-EB  
 PEN TABLE: PEN



|        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 892+00 | 893+00 | 894+00 | 895+00 | 897+00 | 898+00 | 899+00 | 900+00 | 901+00 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 911.76 | 912.05 | 912.45 | 912.45 | 912.96 | 912.98 | 913.55 | 913.59 | 914.27 | 914.30 | 915.05 | 915.12 | 915.98 | 916.01 | 916.99 | 916.92 | 917.82 | 917.82 | 918.59 | 918.72 | 919.12 | 919.68 | 919.98 | 920.68 | 917.99 | 921.73 | 917.76 | 922.79 | 918.21 | 923.84 | 919.21 | 924.90 | 923.62 | 925.96 | 923.41 |

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|   |                |           |
|---|----------------|-----------|
| USER NAME = bhartma                                 | DESIGNED - BH  | REVISED - |
| FILE NAME = D:\60101-sht-pln-pr-f05-EB HARM-W.L.dgn | DRAWN - DMS    | REVISED - |
| PLOT SCALE = 1" = 50'                               | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                               | DATE - 3/29/18 | REVISED - |

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

US ROUTE 20 AT HARMONY ROAD  
 EASTBOUND HARMONY ROAD WEST LEG PLAN AND PROFILE

|                           |              |                |                  |              |
|---------------------------|--------------|----------------|------------------|--------------|
| F.A.P. RTE. 525           | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135 | SHEET NO. 26 |
| CONTRACT NO. 60T01        |              |                |                  |              |
| ILLINOIS FED. AID PROJECT |              |                |                  |              |

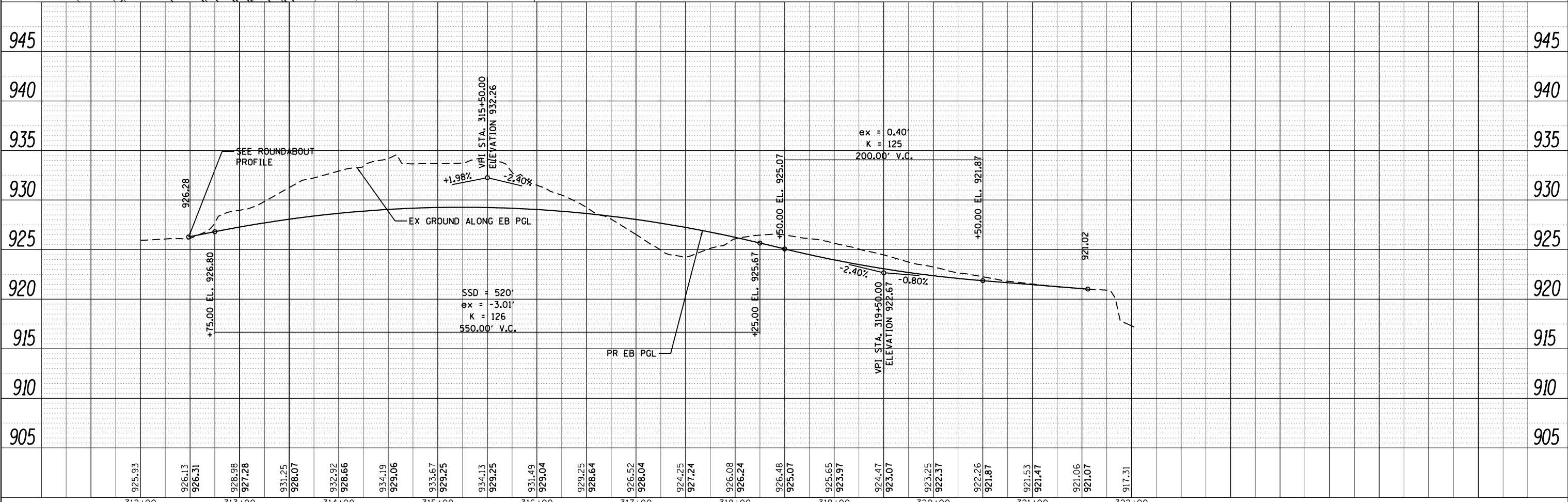
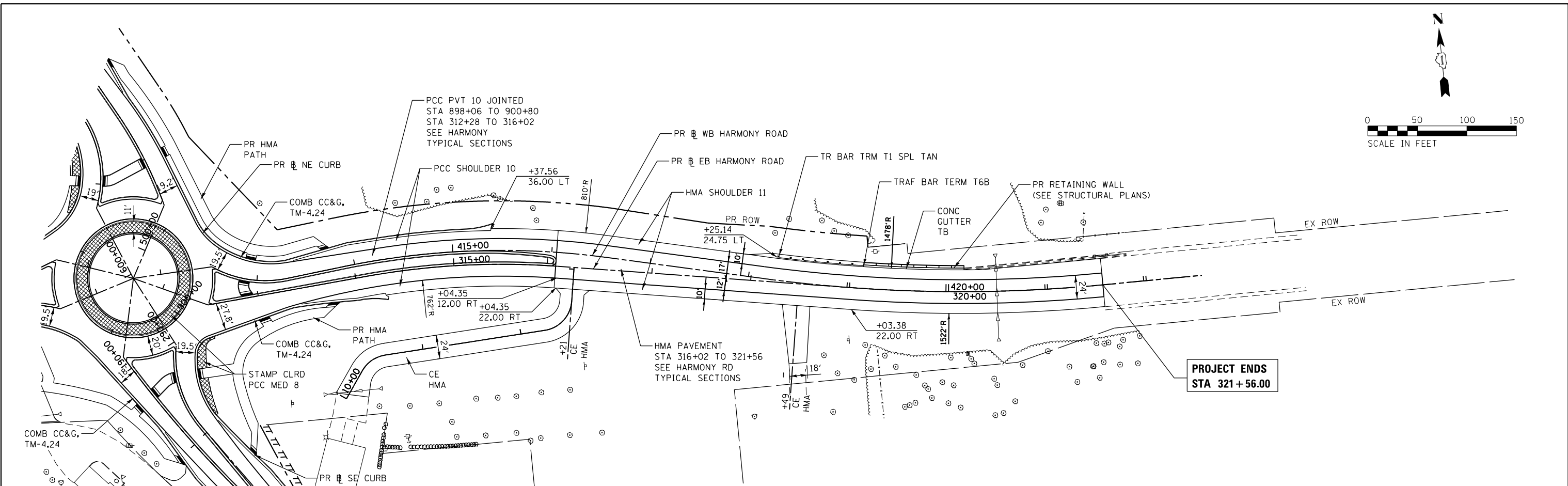
SCALE: 1" = 50' SHEET NO. 5 OF 10 SHEETS STA. TO STA.



|      |           |    |      |
|------|-----------|----|------|
| PLAN | SURVEYED  | BY | DATE |
|      | PLOTTED   |    |      |
|      | ALIGNED   |    |      |
|      | CHECKED   |    |      |
|      | DESIGNED  |    |      |
|      | FILE NAME |    |      |
|      | NO.       |    |      |
|      |           |    |      |

|         |                    |    |      |
|---------|--------------------|----|------|
| PROFILE | SURVEYED           | BY | DATE |
|         | PLOTTED            |    |      |
|         | GRADES CHECKED     |    |      |
|         | STRUCTURE          |    |      |
|         | NOT AT THIS OFFICE |    |      |
|         | NO.                |    |      |
|         |                    |    |      |

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: D160T01-sht-pln-pr-f06-EB HARM-EL.dgn  
 CLIENT: HRGreen  
 DATE PLOTTED: 3/29/2018 9:46:05 AM  
 FILE NAME: D:\2018\312\11-N\312-11-N\pr-f06-EB HARM-EL.dgn  
 PLOT NUMBER: 11-N  
 PEN TABLE: 11-N



|            |   |          |           |         |   |
|------------|---|----------|-----------|---------|---|
| USER NAME  | = bh                                    | DESIGNED | - BH      | REVISED | - |
| FILE NAME  | = D160T01-sht-pln-pr-f06-EB HARM-EL.dgn | DRAWN    | - DMS     | REVISED | - |
| PLOT SCALE | = 1" = 50'                              | CHECKED  | -         | REVISED | - |
| PLOT DATE  | = 3/29/2018                             | DATE     | = 3/29/18 | REVISED | - |

|             |                                |             |
|-------------|--------------------------------|-------------|
| HRGreen.com | Micro Professional Design Firm | #184-001322 |
|-------------|--------------------------------|-------------|

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20 AT HARMONY ROAD  
EASTBOUND HARMONY ROAD EAST LEG PLAN AND PROFILE**

|                           |         |                          |              |              |
|---------------------------|---------|--------------------------|--------------|--------------|
| F.A.P. RTE.               | SECTION | COUNTY                   | TOTAL SHEETS | SHEET NO.    |
| 525                       | 11-N    | MCHENRY                  | 135          | 27           |
| SCALE: 1" = 50'           |         | SHEET NO. 6 OF 10 SHEETS |              | STA. TO STA. |
| ILLINOIS FED. AID PROJECT |         |                          |              |              |

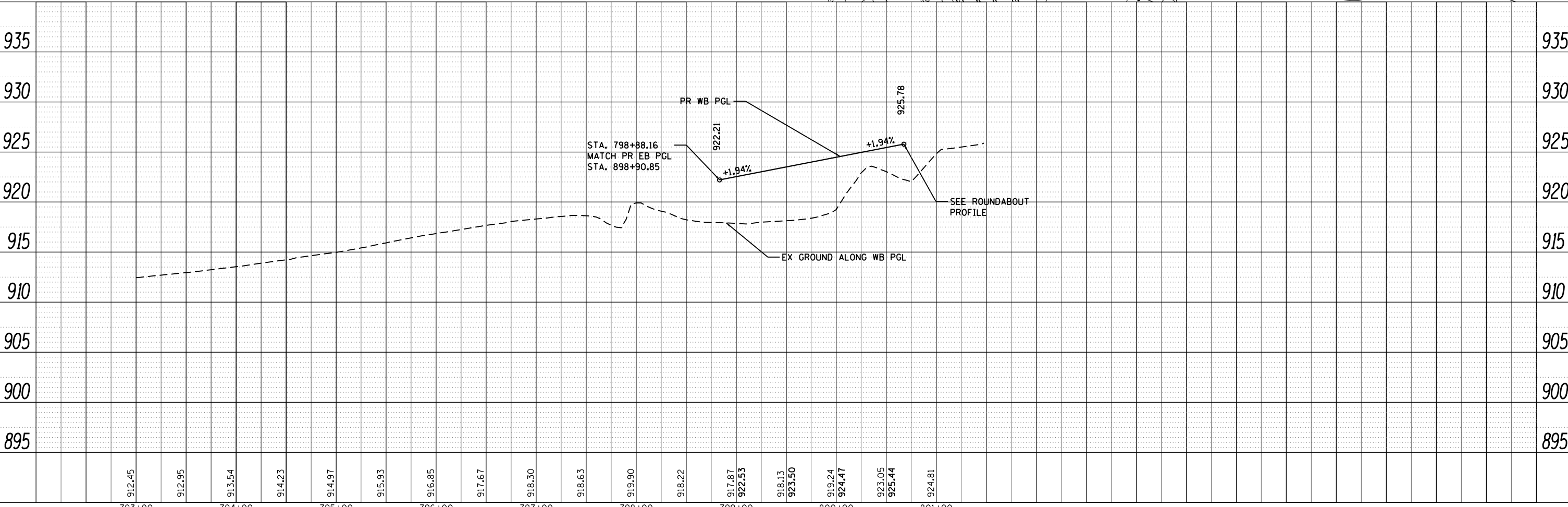
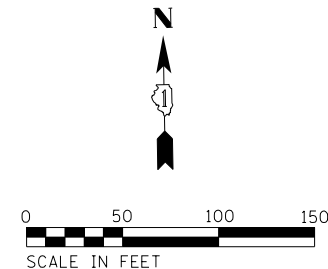
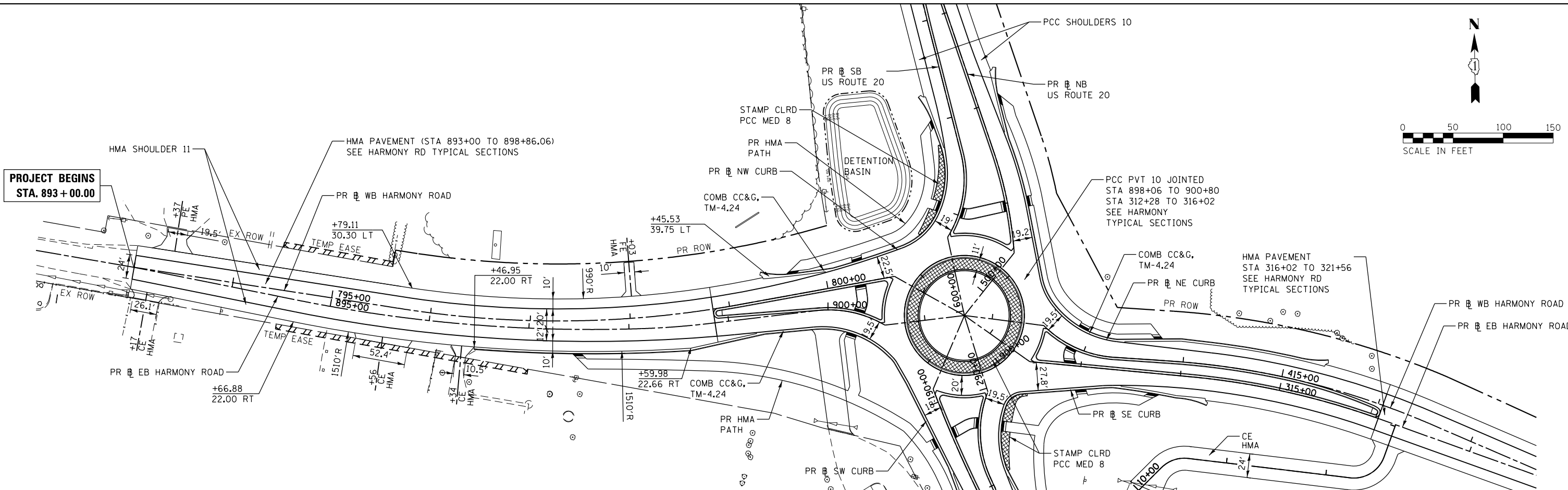
CONTRACT NO. 60T01

|      |          |    |      |
|------|----------|----|------|
| PLAN | SURVEYED | BY | DATE |
|      | PLOTTED  |    |      |
|      | ALIGNED  |    |      |
|      | CHECKED  |    |      |
|      | FILED    |    |      |
|      | NO.      |    |      |

|         |          |    |      |
|---------|----------|----|------|
| PROFILE | SURVEYED | BY | DATE |
|         | PLOTTED  |    |      |
|         | GRADES   |    |      |
|         | CHECKED  |    |      |
|         | FILED    |    |      |
|         | NO.      |    |      |

COMPANY NAME: HRGreen  
 PROJECT CONTACT: #PROJECT\_CONTACT#  
 CLIENT: #CLIENT#  
 DATE PLOTTED: 3/29/2018 9:46:12 AM  
 FILE NAME: D:\60701\sh-t-pln-pr-f07-WB HARM-WB.dgn  
 PLOT NUMBER: JL2017.dwg  
 PEN TABLE: pen.tbl

**PROJECT BEGINS  
 STA. 893 + 00.00**



|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 793+00 | 794+00 | 795+00 | 796+00 | 797+00 | 798+00 | 799+00 | 800+00 | 801+00 |
| 912.45 | 912.95 | 913.54 | 914.23 | 914.97 | 915.93 | 916.85 | 917.67 | 918.30 |
| 918.63 | 919.90 | 918.22 | 917.87 | 922.53 | 918.13 | 923.50 | 919.24 | 924.47 |
| 923.05 | 925.44 | 924.81 |        |        |        |        |        |        |

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 #184-001322

|   |                |           |
|---|----------------|-----------|
| USER NAME = bhartma                                 | DESIGNED - BH  | REVISED - |
| FILE NAME = D:\60701\sh-t-pln-pr-f07-WB HARM-WB.dgn | DRAWN - DMS    | REVISED - |
| PLOT SCALE = 1" = 50'                               | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                               | DATE - 3/29/18 | REVISED - |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20 AT HARMONY ROAD  
 WESTBOUND HARMONY ROAD WEST LEG PLAN AND PROFILE**

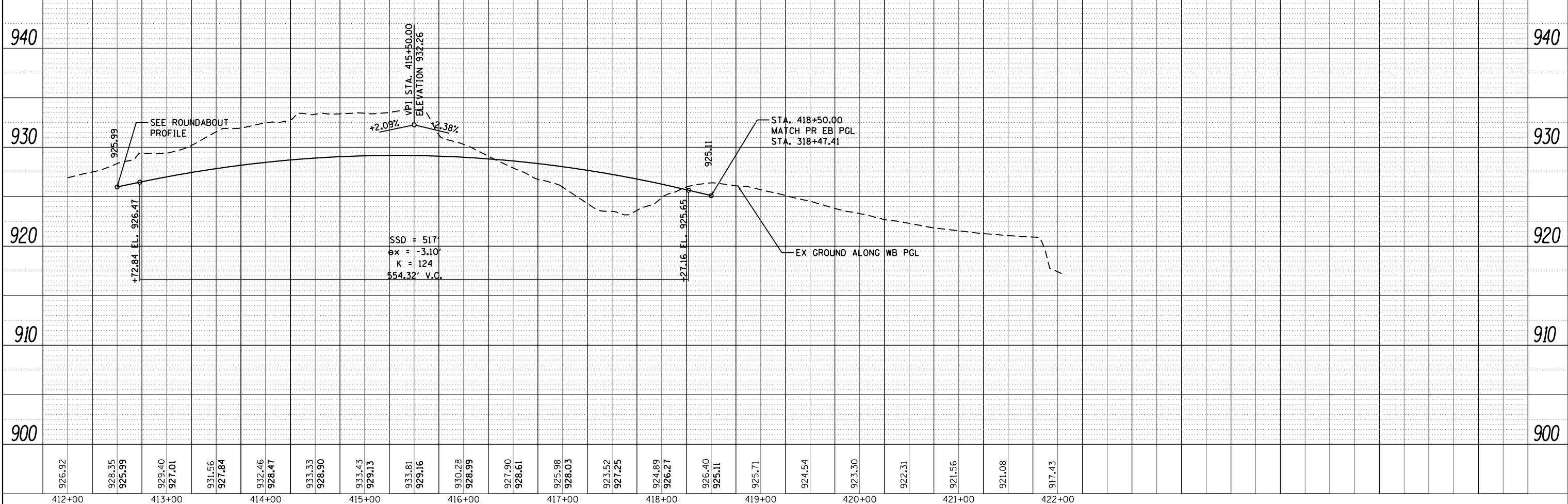
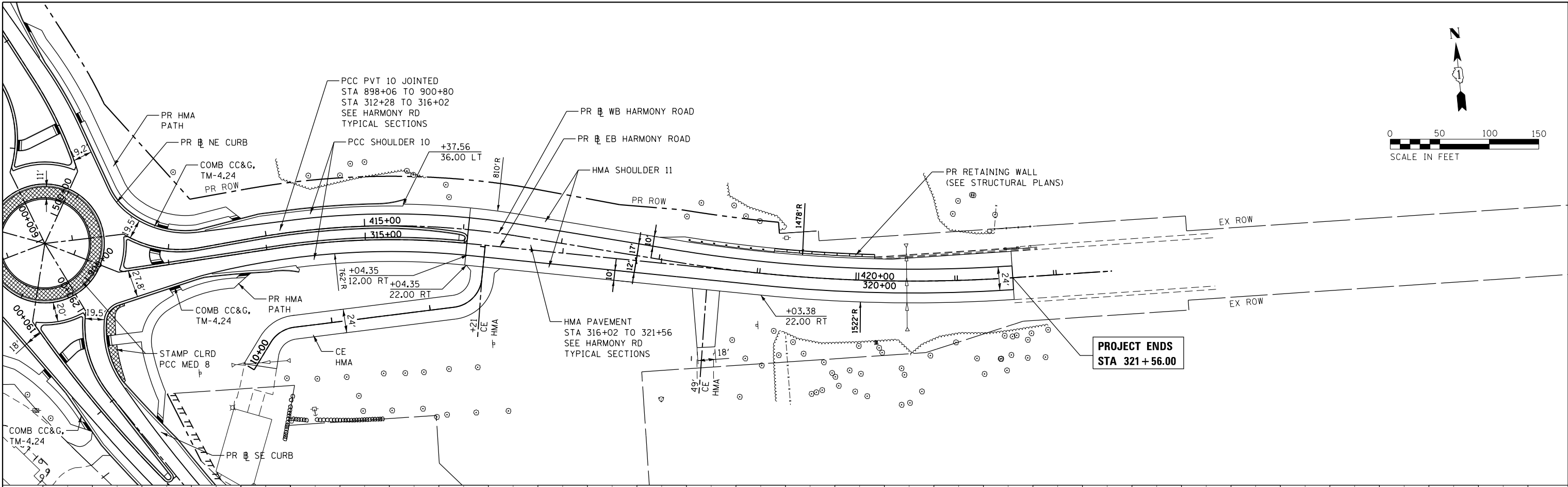
|                           |         |         |              |           |
|---------------------------|---------|---------|--------------|-----------|
| F.A.P. RTE.               | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
| 525                       | 11-N    | MCHENRY | 135          | 28        |
| CONTRACT NO.              |         |         | 60T01        |           |
| ILLINOIS FED. AID PROJECT |         |         |              |           |

SCALE: 1" = 50' SHEET NO. 7 OF 10 SHEETS STA. TO STA.

|      |          |    |      |
|------|----------|----|------|
| PLAN | SURVEYED | BY | DATE |
|      | PLOTTED  |    |      |
|      | ALIGNED  |    |      |
|      | CHECKED  |    |      |
|      | FILED    |    |      |
|      | NO.      |    |      |

|         |          |    |      |
|---------|----------|----|------|
| PROFILE | SURVEYED | BY | DATE |
|         | PLOTTED  |    |      |
|         | GRADES   |    |      |
|         | CHECKED  |    |      |
|         | FILED    |    |      |
|         | NO.      |    |      |

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: bhartma  
 CLIENT: MCHENRY COUNTY  
 DATE PLOTTED: 3/29/2018 9:46:19 AM  
 FILE NAME: D:\60101-SHT-1000-108-WB-HARM-EL.dgn  
 PLOT NUMBER: 1000-108-WB-HARM-EL.dgn  
 PEN TABLE:



|        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 412+00 | 926.92 | 413+00 | 929.40 | 414+00 | 932.46 | 415+00 | 933.43 | 416+00 | 930.28 | 417+00 | 927.90 | 418+00 | 924.89 | 419+00 | 925.71 | 420+00 | 923.30 | 421+00 | 921.56 | 422+00 | 917.43 |
|        | 928.35 |        | 927.01 |        | 928.47 |        | 929.13 |        | 928.99 |        | 928.61 |        | 926.27 |        | 925.11 |        | 922.31 |        | 921.08 |        |        |
|        | 925.99 |        | 927.01 |        | 928.47 |        | 929.13 |        | 928.99 |        | 928.61 |        | 926.27 |        | 925.11 |        | 922.31 |        | 921.08 |        |        |

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 Illinois Professional Design Firm  
 #184-001322

|  |                |           |
|--|----------------|-----------|
| USER NAME = bhartma                              | DESIGNED - BH  | REVISED - |
| FILE NAME = D:\60101-SHT-1000-108-WB-HARM-EL.dgn | DRAWN - DMS    | REVISED - |
| PLOT SCALE = 1" = 50'                            | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                            | DATE - 3/29/18 | REVISED - |

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20 AT HARMONY ROAD**  
**WESTBOUND HARMONY ROAD EAST LEG PLAN AND PROFILE**

|                    |              |                |                  |              |
|--------------------|--------------|----------------|------------------|--------------|
| F.A.P. RTE. 525    | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135 | SHEET NO. 29 |
| CONTRACT NO. 60T01 |              |                |                  |              |

SCALE: 1" = 50'    SHEET NO. 8 OF 10 SHEETS    STA. TO STA.

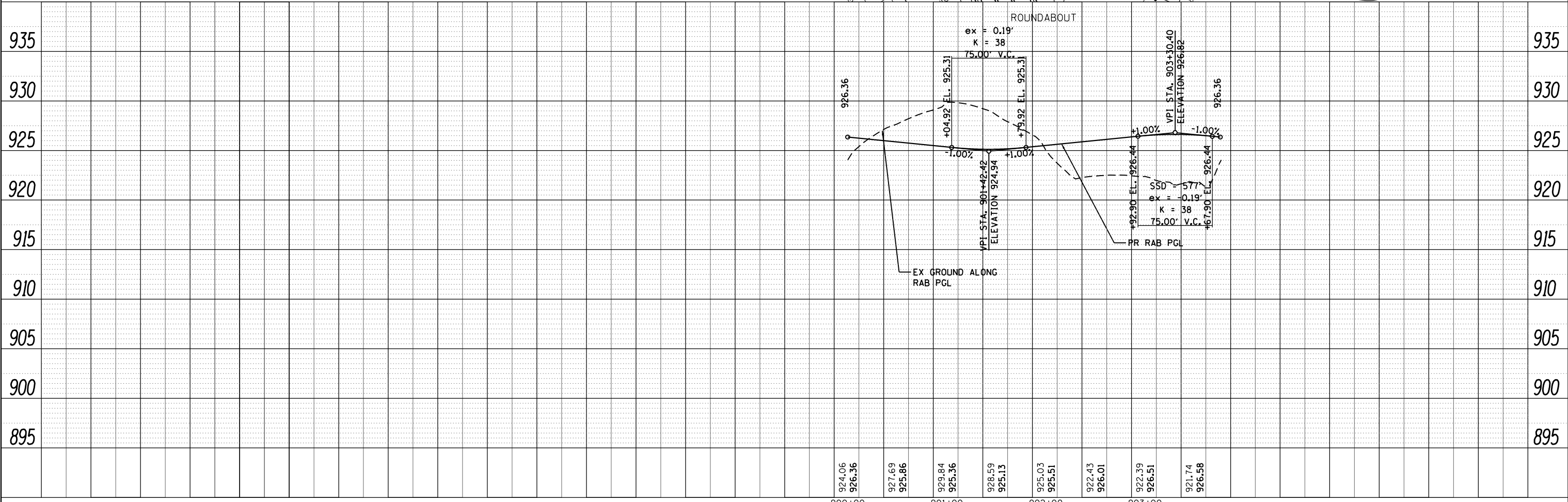
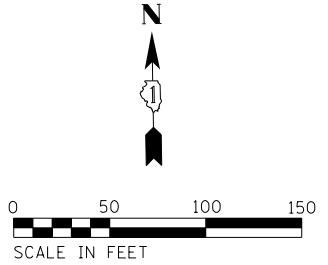
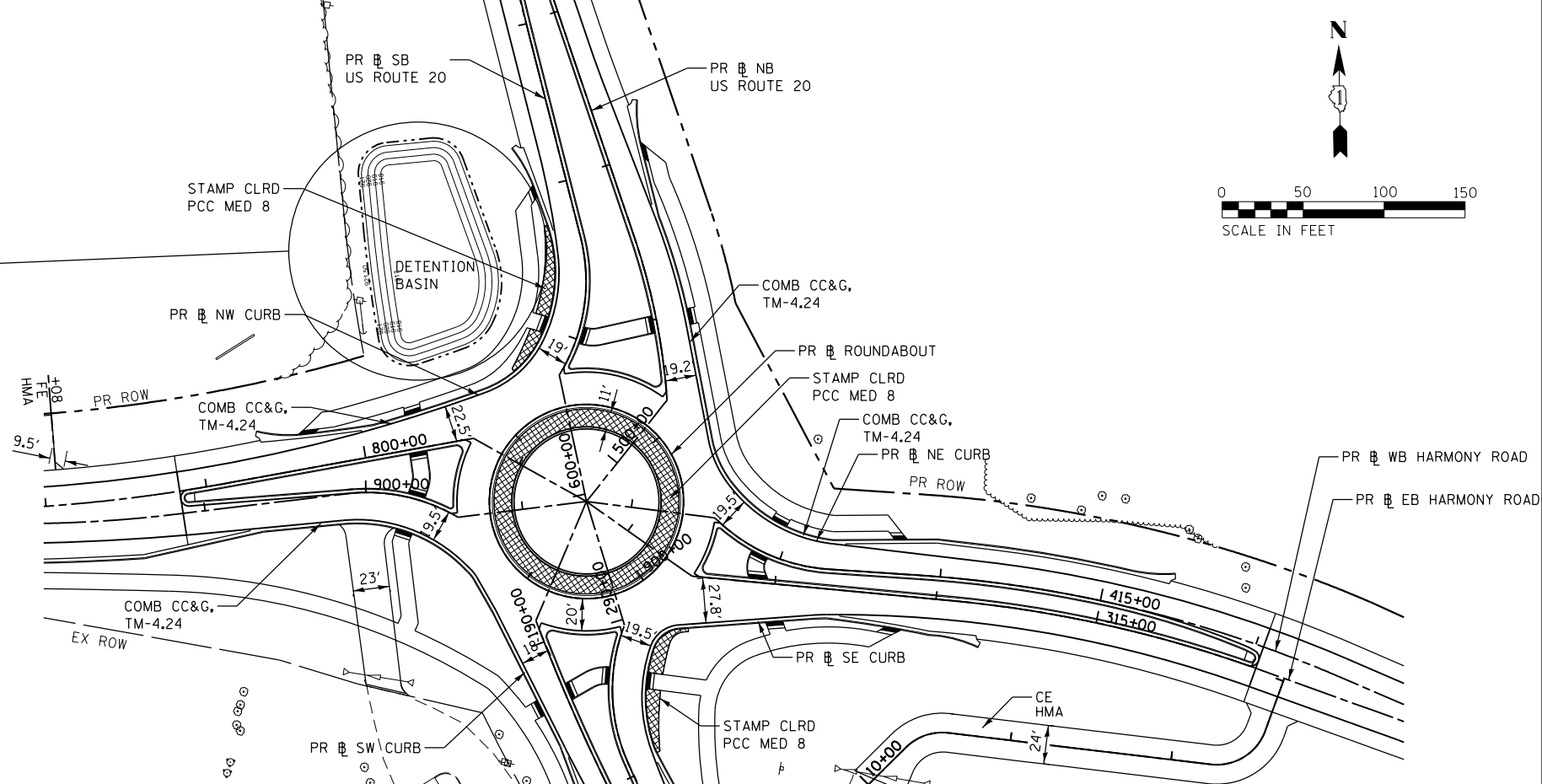
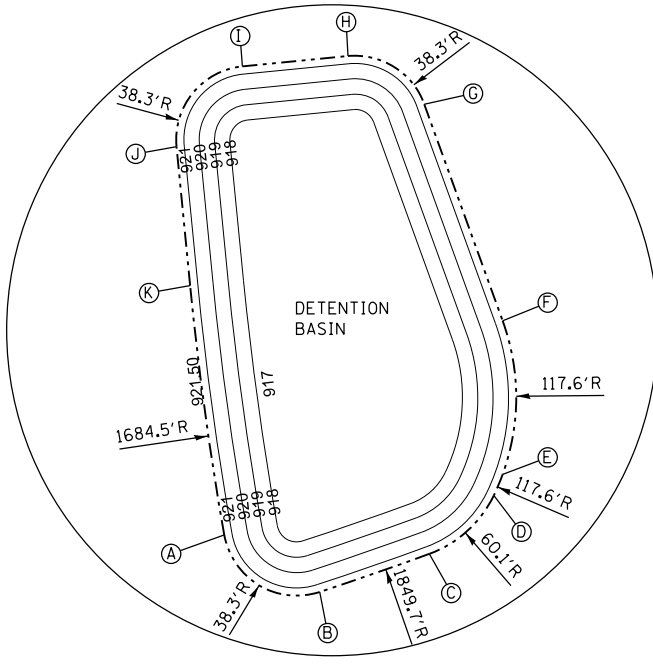
ILLINOIS FED. AID PROJECT

|      |          |    |      |
|------|----------|----|------|
| PLAN | SURVEYED | BY | DATE |
|      | PLOTTED  |    |      |
|      | ALIGNED  |    |      |
|      | CHECKED  |    |      |
|      | FILED    |    |      |
|      | NO.      |    |      |

|         |           |    |      |
|---------|-----------|----|------|
| PROFILE | SURVEYED  | BY | DATE |
|         | PLOTTED   |    |      |
|         | GRADES    |    |      |
|         | CHECKED   |    |      |
|         | STRUCTURE |    |      |
|         | NOTATIONS |    |      |
|         | CHKD      |    |      |
|         | NO.       |    |      |

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: #PROJECT\_CONTACT#  
 CLIENT: #CLIENT#  
 DATE PLOTTED: 3/29/2018 9:42:26 AM  
 FILE NAME: D:\60701\sh-t-pln-pr-f09-RAB.dgn  
 PLOT NUMBER: JL307C.dwg  
 PEN TABLE: pen.tbl

| POINT DESCRIPTION |           |           |
|-------------------|-----------|-----------|
| POINT             | STATION   | OFFSET    |
| A                 | 800+20.89 | 70.3' LT  |
| B                 | 800+42.65 | 51.2' LT  |
| C                 | 800+67.65 | 56.1' LT  |
| D                 | 600+85.25 | 51.8' LT  |
| E                 | 600+96.60 | 51.9' LT  |
| F                 | 601+69.27 | 52.6' LT  |
| G                 | 602+28.97 | 58.4' LT  |
| H                 | 602+46.03 | 74.6' LT  |
| I                 | 602+50.20 | 101.9' LT |
| J                 | 602+34.16 | 123.7' LT |
| K                 | 601+98.26 | 129.2' LT |



|        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 924.06 | 926.36 | 927.69 | 925.86 | 929.84 | 925.36 | 928.59 | 925.13 | 925.03 | 925.51 | 922.43 | 926.01 | 922.39 | 926.51 | 921.74 | 926.58 |
| 900+00 | 901+00 | 902+00 | 903+00 |        |        |        |        |        |        |        |        |        |        |        |        |



|  |                |           |
|--|----------------|-----------|
| USER NAME = bhar-tmo                         | DESIGNED - BH  | REVISED - |
| FILE NAME = D:\60701\sh-t-pln-pr-f09-RAB.dgn | DRAWN - DMS    | REVISED - |
| PLOT SCALE = 1" = 50'                        | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                        | DATE - 3/29/18 | REVISED - |

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

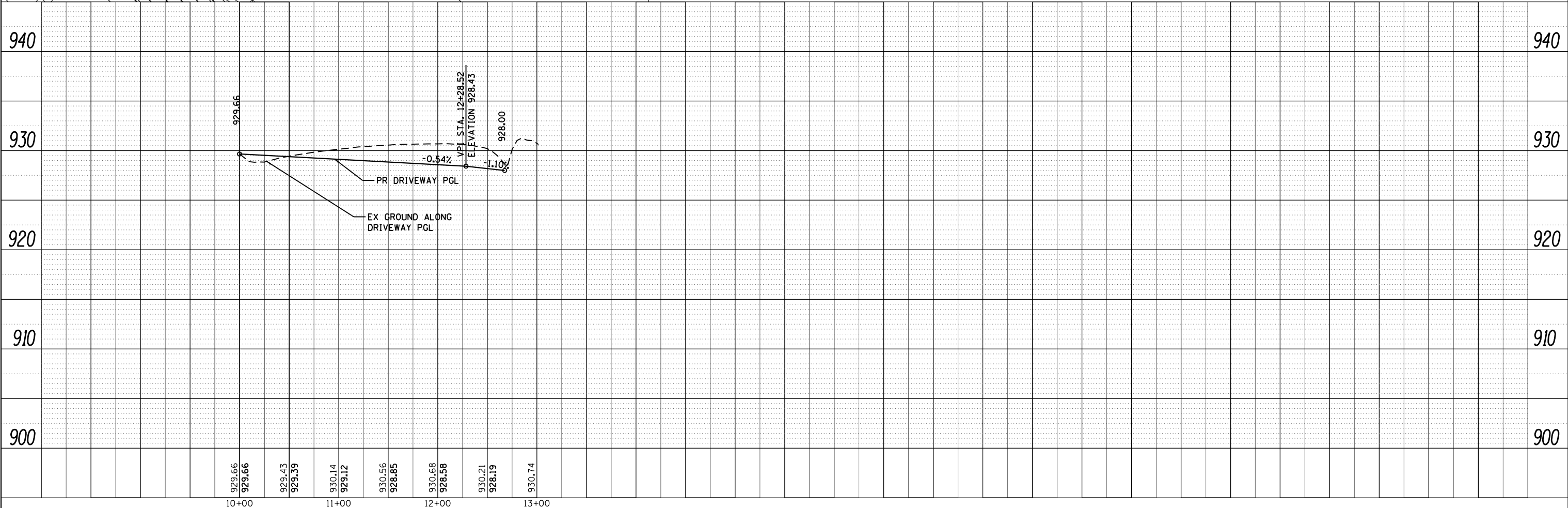
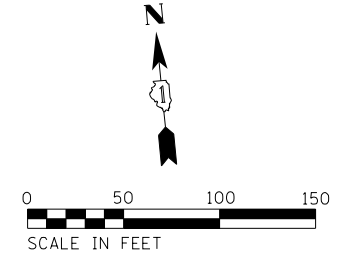
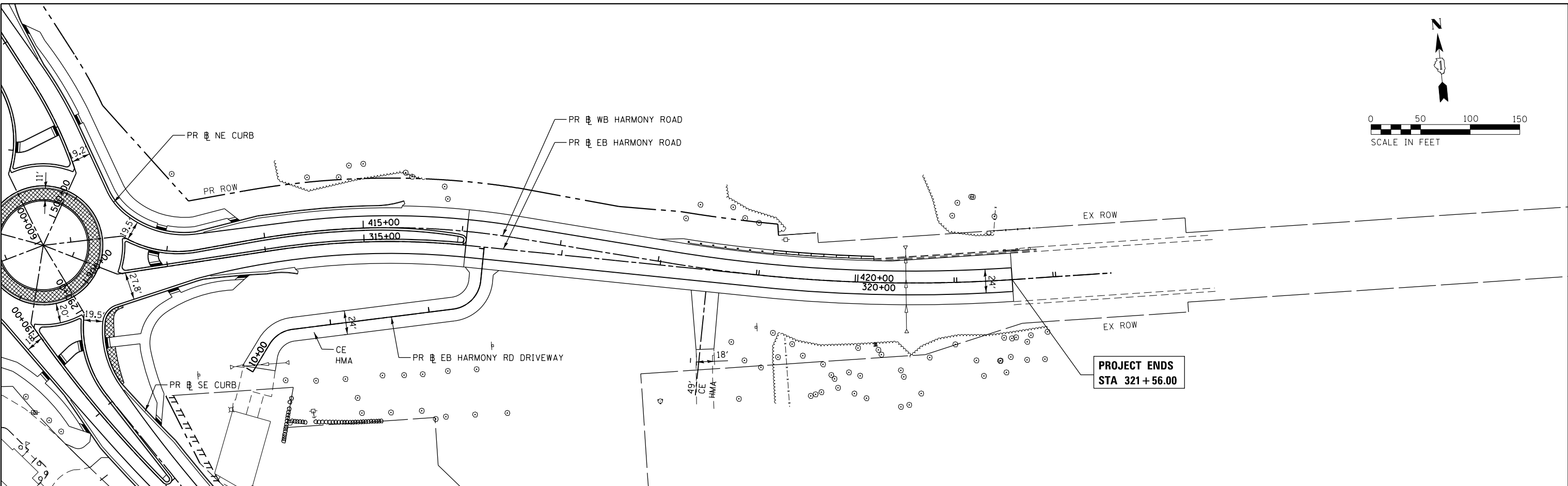
US ROUTE 20 AT HARMONY ROAD  
 ROUNDABOUT PLAN AND PROFILE  
 SCALE: 1" = 50' SHEET NO. 9 OF 10 SHEETS STA. TO STA.

|                    |              |                |                           |              |
|--------------------|--------------|----------------|---------------------------|--------------|
| F.A.P. RTE. 525    | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135          | SHEET NO. 30 |
| CONTRACT NO. 60T01 |              |                | ILLINOIS FED. AID PROJECT |              |

|      |          |    |      |
|------|----------|----|------|
| PLAN | SURVEYED | BY | DATE |
|      | PLOTTED  |    |      |
|      | ALIGNED  |    |      |
|      | CHECKED  |    |      |
|      | FILED    |    |      |
|      | NO.      |    |      |

|         |          |    |      |
|---------|----------|----|------|
| PROFILE | SURVEYED | BY | DATE |
|         | PLOTTED  |    |      |
|         | GRADES   |    |      |
|         | CHECKED  |    |      |
|         | FILED    |    |      |
|         | NO.      |    |      |

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: #PROJECT\_CONTACT#  
 CLIENT: #CLIENT#  
 DATE PLOTTED: 3/29/2018 9:46:34 AM  
 FILE NAME: D:\60701\sh-t-pln\pr-f10-Driveway.dgn  
 PLOT NUMBER: JL307C.dwg  
 PEN TABLE: pen.tbl



|        |        |        |        |
|--------|--------|--------|--------|
| 10+00  | 11+00  | 12+00  | 13+00  |
| 929.66 | 929.43 | 930.14 | 930.21 |
| 929.66 | 929.39 | 929.12 | 928.19 |
|        |        | 930.56 | 930.74 |
|        |        | 928.85 |        |
|        |        | 930.68 |        |
|        |        | 928.58 |        |

|   |                |           |
|---|----------------|-----------|
| USER NAME = bharto                                | DESIGNED - BH  | REVISED - |
| FILE NAME = D:\60701\sh-t-pln\pr-f10-Driveway.dgn | DRAWN - DMS    | REVISED - |
| PLOT SCALE = 1" = 50'                             | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                             | DATE - 3/29/18 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20 AT HARMONY ROAD  
EASTBOUND HARMONY ROAD DRIVEWAY**

SCALE: 1" = 50'    SHEET NO. 10 OF 10 SHEETS    STA.    TO STA.

|                           |         |         |              |           |
|---------------------------|---------|---------|--------------|-----------|
| F.A.P. RTE.               | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
| 525                       | 11-N    | MCHENRY | 135          | 31        |
| CONTRACT NO.              |         |         | 60T01        |           |
| ILLINOIS FED. AID PROJECT |         |         |              |           |

**MAINTENANCE OF TRAFFIC GENERAL NOTES**

ALL OF THE TRAFFIC CONTROL DEVICES SHALL BE IN PLACE BEFORE CONSTRUCTION IS STARTED. ALL TEMPORARY PAVEMENT MARKINGS & TRAFFIC CONTROL DEVICES SHALL BE IN PLACE AT THE BEGINNING OF EACH STAGE, AND SHALL BE MAINTAINED FOR THE DURATION OF THAT STAGE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

A MINIMUM OF TWO (2) ELEVEN FOOT (11') LANES, ONE IN EACH DIRECTION, SHALL BE KEPT OPEN TO TRAFFIC ON US ROUTE 20 AND HARMONY ROAD.

ALL PAVEMENT MARKINGS CONFLICTING WITH STAGED TRAFFIC PATTERNS SHALL BE REMOVED. TYPE III MARKING TAPE SHALL BE USED ON THE FINAL WEARING SURFACE OR ON THE EXISTING PAVEMENT TO REMAIN WHEN THE TEMPORARY PAVEMENT MARKING WILL CONFLICT WITH THE PERMANENT PAVEMENT MARKING SUCH AS ON TAPERS OR LANE SHIFTS. PAVEMENT MARKING PAINT SHALL BE USED ON ALL SURFACES TO BE REMOVED OR COVERED WITH SURFACE COURSE.

ACCESS SHALL BE MAINTAINED TO ALL PROPERTIES DURING CONSTRUCTION OPERATIONS WITH THE USE OF AGGREGATE FOR TEMPORARY ACCESS AND/OR BY CONSTRUCTING ONE HALF OF PROPOSED DRIVEWAYS AT A TIME.

PROVIDE TEMPORARY HMA RAMP WEDGE TO TRANSITION THE DIFFERENTIAL ELEVATIONS CAUSED BY STAGED CONSTRUCTION BETWEEN THE NEW CONSTRUCTION AND THE EXISTING PAVEMENT. ANY PAVEMENT DROP-OFFS GREATER THAN 3 INCHES IMMEDIATELY ADJACENT TO TRAFFIC SHALL NOT BE LEFT OVERNIGHT. PROVIDE TEMPORARY HMA RAMP WEDGE OR OTHER MITIGATING MEASURES APPROVED BY THE ENGINEER. THE RAMP WEDGE SHALL USE HMA SURFACE COURSE AND WILL BE PAID FOR WITH THE APPLICABLE MIXTURE TYPE PER TON.

CHANNELIZING DEVICES ARE TO BE PLACED AT SAME LEVEL AS TRAVELING LANE OR SHOULDER PROFILE.

CHANNELIZING DEVICES MAY BE PLACED AT THE DROP-OFF ELEVATION TO PRESERVE LANE WIDTH. THE REFLECTIVE AREA AND WARNING LIGHT SHALL BE RAISED TO THE ELEVATION ABOVE THE TRAVELING LANE OR SHOULDER PROFILE AS REQUIRED BY STANDARD 701901.

CHANNELIZING DEVICES ARE TO BE PLACED AT THE SAME LEVEL AS SIDE SLOPE PROFILE TO BE FULLY VISIBLE.

DROP-OFFS GREATER THAN 18 IN. SHALL NOT BE EXPOSED TO TRAFFIC FOR GREATER THAN 48 HRS. ADDITIONALLY, PYLONS OF FLASHING LIGHTS SHALL BE PLACED AT DROP-OFFS GREATER THAN 18 IN.

THE CONTRACTOR SHALL MAINTAIN TRAFFIC IN ACCORDANCE WITH THE PLANS, SPECIAL PROVISIONS, STATE STANDARDS AND AS DIRECTED BY THE ENGINEER.

TYPE II BARRICADES EQUIPPED WITH MONO-DIRECTIONAL STEADY BURN LIGHTS SHALL BE PLACED ALONG THE ROADWAY AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. TYPE II BARRICADES WITH DIRECTIONAL ARROWS SHALL BE PLACED AT LANE SHIFTS (TAPER SECTIONS) AS INDICATED ON THE PLANS OR DIRECTED BY THE ENGINEER. BARRICADES WITH LEG EXTENSIONS SHALL BE USED WHERE NEEDED TO PROVIDE A MINIMUM DISTANCE OF 36" BETWEEN THE PAVEMENT AND TOP OF BARRICADE. BARRICADES IN TAPER SECTIONS SHALL HAVE DIRECTION INDICATOR PANELS. ALL TYPE II BARRICADES SHALL BE NON-METALLIC.

THE CONTRACTOR SHALL INFORM THE ENGINEER OF ANY CHANGES IN STAGING AT LEAST TWO (2) WORKING DAYS IN ADVANCE.

TEMPORARY SIGNING, AS SHOWN, SHALL CONFORM TO THE APPLICABLE STANDARDS INCLUDED IN THE SPECIAL PROVISIONS AND CONTRACT PLANS OR AS DIRECTED BY THE ENGINEER.

ALL "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE EQUIPPED WITH MONO-DIRECTIONAL AMBER FLASHING LIGHTS.

ROAD NAME PLATES SHALL BE INSTALLED ON "ROAD CONSTRUCTION AHEAD" SIGNS AT INTERSECTIONS SHOWN ON THE PLANS.

EXISTING TRAFFIC CONTROL DEVICES WITHIN THE LIMITS OF CONSTRUCTION, ARE TO BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. ANY DAMAGED SIGNS CAUSED BY HIS WORK SHALL BE REPLACED BY THE CONTRACTOR.

TRAFFIC CONTROL DEPICTED ON THE MAINTENANCE OF TRAFFIC PLANS IS THE MINIMUM REQUIREMENT. OTHER WORK OR SIGNING MAY BE REQUIRED BY THE ENGINEER.

**MAINTENANCE OF TRAFFIC STAGING NOTES**

**PRE-STAGE**

**CONSTRUCTION**

CONSTRUCT TEMPORARY ROADWAY PAVEMENT AND DRAINAGE ITEMS ON THE NORTH AND SOUTH LEGS OF US ROUTE 20 AND WEST LEG OF HARMONY ROAD.

1. CONSTRUCT TEMPORARY ROADWAY PAVEMENT AND TEMPORARY ITEMS ON THE NORTH AND SOUTH LEGS OF US ROUTE 20.
2. CONSTRUCT TEMPORARY ROADWAY PAVEMENT ON THE WEST LEG OF HARMONY ROAD.

**SUGGESTED MAINTENANCE OF TRAFFIC**

INSTALL PRE-STAGE TRAFFIC CONTROL DEVICES ON US ROUTE 20 AND HARMONY ROAD.

TRAFFIC MAINTAINED WITH EXISTING TRAFFIC PATTERNS ON US ROUTE 20 AND HARMONY ROAD.

MAINTAIN TRAFFIC AT INTERSECTION IN ACCORDANCE WITH IDOT STANDARD 701701.

MAINTAIN DRIVEWAYS AND ENTRANCE ACCESS WITH TEMPORARY ACCESS (EACH).

**STAGE 1**

**CONSTRUCTION**

CONSTRUCTION TO BE PERFORMED ON THE MAJORITY OF THE NORTH AND COMPLETE EAST LEG OF THE ROUNDABOUT AND ON PARTIAL SECTIONS OF THE WEST AND SOUTH LEGS.

1. PERFORM EARTHWORK, PROPOSED DITCH GRADING AND STORM SEWERS IN WORK ZONE
2. CONSTRUCT CURB AND GUTTER AND PROPOSED PAVEMENT
3. CONSTRUCT SIDE ROADS, DRIVEWAYS AND ENTRANCES

**SUGGESTED MAINTENANCE OF TRAFFIC**

INSTALL STAGE 1 TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKINGS ON US ROUTE 20 AND HARMONY ROAD.

CLOSE EAST LEG OF HARMONY ROAD AND TRAFFIC TO BE ROUTED VIA INCLUDED DETOUR PLAN

REMAINING TRAFFIC WILL BE SHIFTED TO NEWLY CONSTRUCTED TEMPORARY ROADWAY PAVEMENT AND EXISTING PAVEMENT ALONG US ROUTE 20 AND HARMONY ROAD

MAINTAIN DRIVEWAYS AND ENTRANCE ACCESS WITH TEMPORARY ACCESS (EACH).

**STAGE 2**

**CONSTRUCTION**

CONSTRUCTION TO BE PERFORMED ON THE REMAINING PORTIONS OF THE NORTH AND MAJORITY OF THE WEST LEG.

1. PERFORM EARTHWORK, PROPOSED DITCH GRADING AND STORM SEWER IN WORK ZONE
2. CONSTRUCT CURB AND GUTTER AND PROPOSED PAVEMENT
3. CONSTRUCT SIDE ROADS, DRIVEWAYS AND ENTRANCES

**SUGGESTED MAINTENANCE OF TRAFFIC**

INSTALL STAGE 2 TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKINGS ON US ROUTE 20 AND HARMONY ROAD.

TRAFFIC SHIFTED TO THE EAST ON SOUTH LEG AND SHIFTED TO THE NEWLY CONSTRUCTED PAVEMENT ON THE NORTH, EAST, AND WEST LEGS

ANTICIPATED TRAFFIC WILL UTILIZE NEWLY CONSTRUCTED PROPOSED PAVEMENT FROM STAGE 1 CONSTRUCTION.

MAINTAIN DRIVEWAYS AND ENTRANCE ACCESS WITH TEMPORARY ACCESS (EACH).

**STAGE 3**

**CONSTRUCTION**

CONSTRUCTION TO BE PERFORMED ON THE REMAINING PORTIONS OF THE SOUTH AND WEST LEGS.

1. PERFORM EARTHWORK, PROPOSED DITCH GRADING AND STORM SEWER IN WORK ZONE
2. CONSTRUCT CURB AND GUTTER AND PROPOSED PAVEMENT UP TO BINDER COURSE.
3. GRADING IN PARKWAY ALONG NORTH AND EAST LEGS OF ROUNDABOUT
4. CONSTRUCT SIDE ROADS, DRIVEWAYS AND ENTRANCES.

**SUGGESTED MAINTENANCE OF TRAFFIC**

INSTALL STAGE 3 TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKINGS ON US ROUTE 20 AND HARMONY ROAD.

TRAFFIC SHIFTED TO THE EAST ON SOUTH LEG AND ON PROPOSED PAVEMENT ON NORTH LEG.

TRAFFIC SHIFTED TO THE NORTH OF THE WEST LEFT TO UTILIZE TEMPORARY PAVEMENT AND ON PROPOSED PAVEMENT ON EAST LEG.

ANTICIPATED TRAFFIC WILL UTILIZE NEWLY CONSTRUCTED PROPOSED PAVEMENT FROM STAGE 2 CONSTRUCTION

MAINTAIN DRIVEWAYS AND ENTRANCE ACCESS WITH TEMPORARY ACCESS (EACH).

**STAGE 4**

**CONSTRUCTION**

CONSTRUCTION TO BE PERFORMED ON THE CENTER AND SPLITTER ISLANDS AND REMAINING PORTIONS OF THE WEST LEG.

1. CONSTRUCT CURB AND GUTTER AND MEDIAN ISLANDS
2. GRADING IN PARKWAY ALONG WEST LEG OF ROUNDABOUT

**SUGGESTED MAINTENANCE OF TRAFFIC**

INSTALL STAGE 4 TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKINGS ON US ROUTE 20 AND HARMONY ROAD.

ALL TRAFFIC ON US ROUTE 20 AND HARMONY ROAD SHIFTED TO CONSTRUCTED ROUNDABOUT

MAINTAIN DRIVEWAYS AND ENTRANCE ACCESS WITH TEMPORARY ACCESS (EACH).

COMPANY NAME: #COMPANY NAME#  
 PROJECT CONTACT: #PROJECT CONTACT#  
 DATE PLOTTED: 3/29/2018 9:46:40 AM  
 FILE NAME: D:\60701\ent-staging-gen-01.dgn  
 PLOT DRIVER: ILpdf.plt  
 PEN TABLE: plot.tbl



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|---|----------------|-----------|
| USER NAME = bharbma                         | DESIGNED - BH  | REVISED - |
| FILE NAME = D:\60701\ent-staging-gen-01.dgn | DRAWN - DMS    | REVISED - |
| PLOT SCALE = NTS                            | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                       | DATE - 3/29/18 | REVISED - |

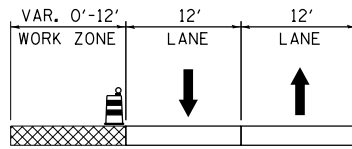
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20 AT HARMONY ROAD  
 CONSTRUCTION STAGING: GENERAL NOTES**

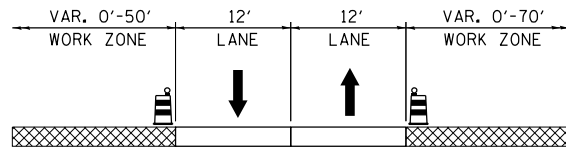
SCALE: NTS SHEET NO. 1 OF 13 SHEETS STA. TO STA.

| F.A.P. RTE.                                   | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---|---------|---------|--------------|-----------|
| 525   | 11-N    | MCHENRY | 135          | 32        |
| <b>CONTRACT NO. 60T01</b>                     |         |         |              |           |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |         |         |              |           |

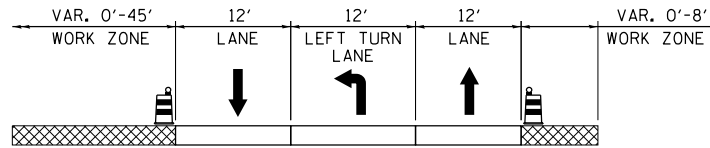




**US ROUTE 20  
PRE-STAGE**  
STA. 491+50 TO STA. 500+00



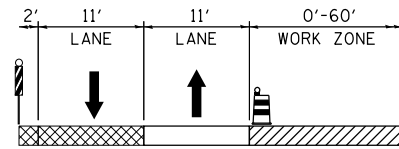
**US ROUTE 20  
PRE-STAGE**  
STA. 500+00 TO STA. 511+31



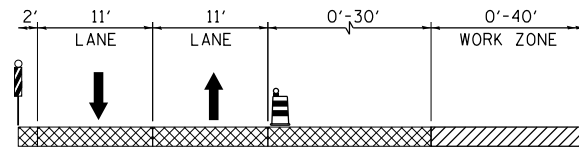
**HARMONY ROAD  
PRE-STAGE**  
STA. 191+97 TO STA. 209+96

**LEGEND**

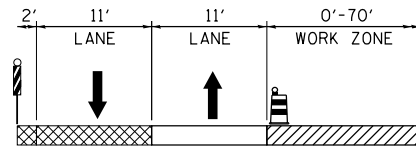
|  |  |
|--|--|
|  | TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL STEADY BURNING LIGHT<br>50' C-C ON TANGENT, 20' C-C ON TAPERS AND 12' ON RADII |
|  | DOUBLE VERTICAL PANELS WITH BI-DIRECTIONAL LIGHTING  |
|  | PROPOSED PAVEMENT  |
|  | TEMPORARY PAVEMENT   |



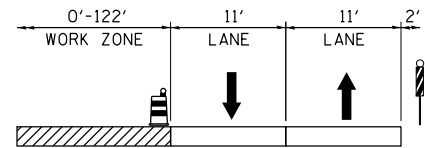
**US ROUTE 20  
STAGE 1**  
STA. 491+50 TO STA. 501+00



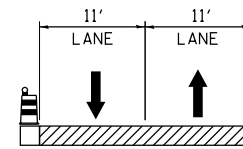
**US ROUTE 20  
STAGE 1**  
STA. 501+00 TO STA. 504+00



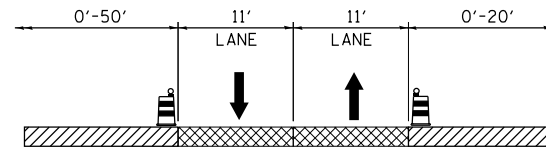
**US ROUTE 20  
STAGE 1**  
STA. 504+00 TO STA. 511+31



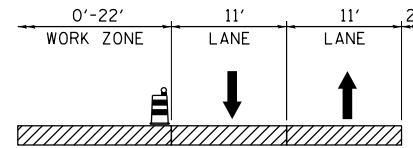
**HARMONY ROAD  
STAGE 1**  
STA. 190+00 TO STA. 199+00



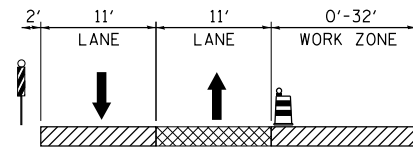
**US ROUTE 20  
STAGE 2**  
STA. 281+50 TO STA. 291+00



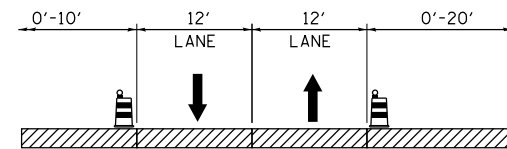
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STAGE 2**  
STA. 500+00 TO STA. 504+00



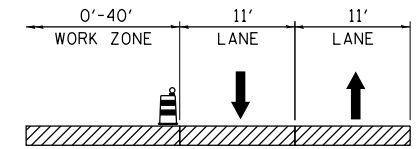
**US ROUTE 20  
STAGE 2**  
STA. 503+00 TO STA. 510+43



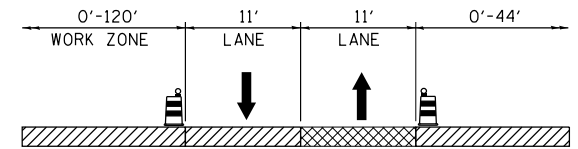
**HARMONY ROAD  
STAGE 2**  
STA. 893+00 TO STA. 900+50



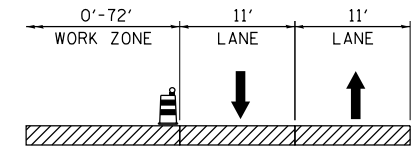
**HARMONY ROAD  
STAGE 2**  
STA. 311+80 TO STA. 321+55



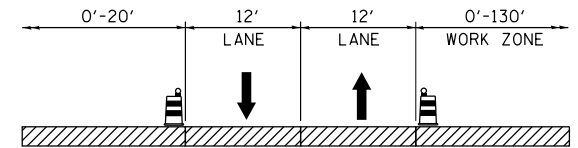
**US ROUTE 20  
STAGE 3**  
STA. 281+50 TO STA. 291+00



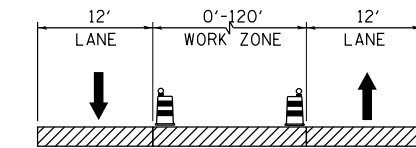
**US ROUTE 20  
STAGE 3**  
STA. 500+00 TO STA. 510+43



**HARMONY ROAD  
STAGE 3**  
STA. 893+00 TO STA. 900+00



**HARMONY ROAD  
STAGE 3**  
STA. 311+80 TO STA. 321+55



**US ROUTE 20  
STAGE 5**  
STA. 281+50 TO STA. 291+00  
STA. 500+00 TO STA. 510+43  
**HARMONY ROAD  
STAGE 5**  
STA. 893+00 TO STA. 901+50  
STA. 311+80 TO STA. 321+59

COMPANY NAME: HRGreen  
PROJECT CONTACT: HRGreen.com  
DATE PLOTTED: 3/29/2018 9:44:47 AM  
FILE NAME: D:\60101\staging-gen-02.dwg  
PLOT DRIVER: ILpdf.plt  
PEN TABLE: plotlabel.tbl



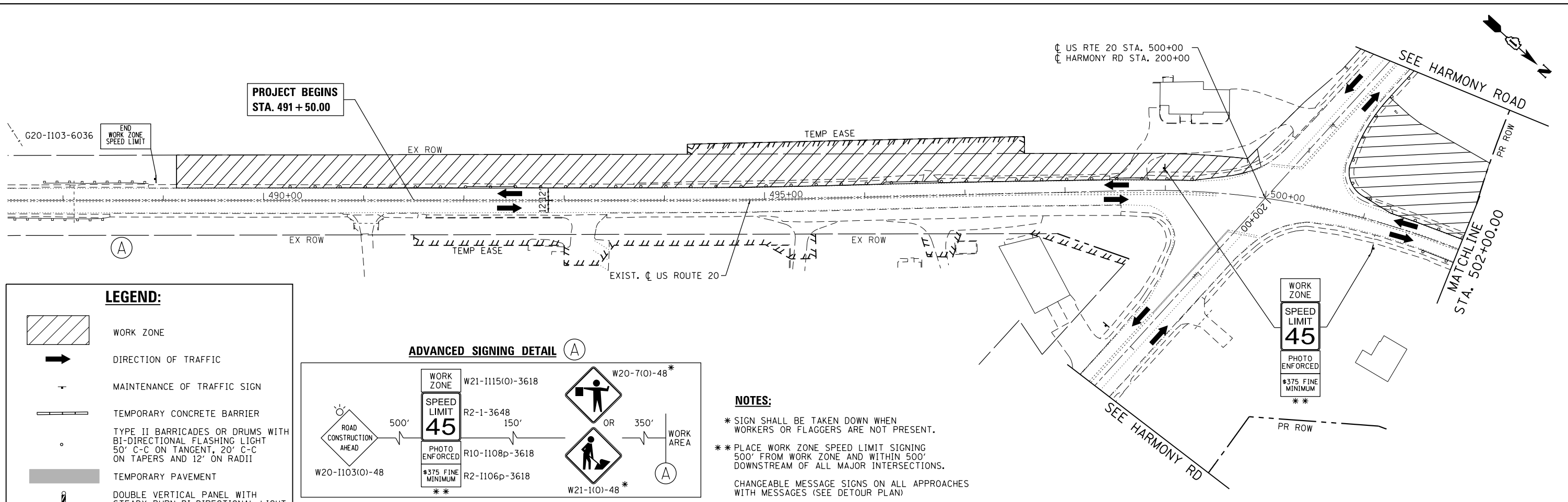
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| USER NAME = bhartha                     | DESIGNED - BH  | REVISED - |
| FILE NAME = D:\60101\staging-gen-02.dwg | DRAWN - DMS    | REVISED - |
| PLOT SCALE = NTS                        | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                   | DATE - 3/29/18 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20 AT HARMONY ROAD  
CONSTRUCTION STAGING: TYPICALS**

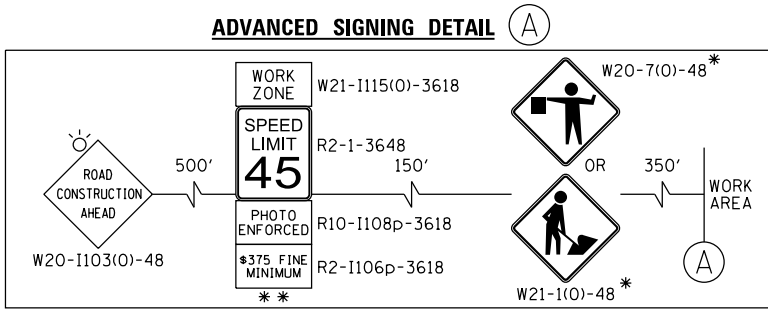
SCALE: NTS SHEET NO. 2 OF 13 SHEETS STA. TO STA.

|   |              |                |                  |              |
|---|--------------|----------------|------------------|--------------|
| F.A.P. RTE. 525                               | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135 | SHEET NO. 33 |
| CONTRACT NO. 60101                            |              |                |                  |              |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |              |                |                  |              |



**LEGEND:**

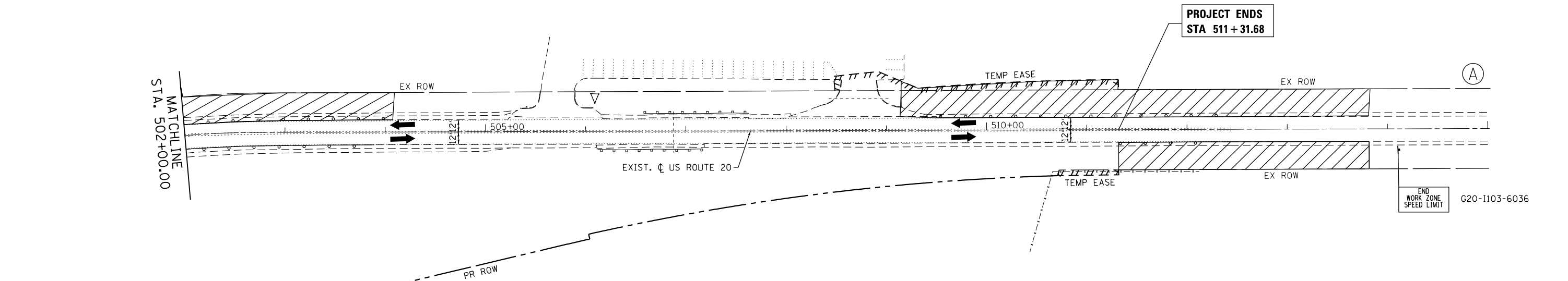
- WORK ZONE
- DIRECTION OF TRAFFIC
- MAINTENANCE OF TRAFFIC SIGN
- TEMPORARY CONCRETE BARRIER
- TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL FLASHING LIGHT 50' C-C ON TANGENT, 20' C-C ON TAPERS AND 12' ON RADII
- TEMPORARY PAVEMENT
- DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT (50' C-C, 25' ON CURVES, 20' ON TAPERS)
- TYPE III BARRICADE WITH FLASHING LIGHTS
- IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2



**NOTES:**

- \* SIGN SHALL BE TAKEN DOWN WHEN WORKERS OR FLAGGERS ARE NOT PRESENT.
- \*\* PLACE WORK ZONE SPEED LIMIT SIGNING 500' FROM WORK ZONE AND WITHIN 500' DOWNSTREAM OF ALL MAJOR INTERSECTIONS.

CHANGEABLE MESSAGE SIGNS ON ALL APPROACHES WITH MESSAGES (SEE DETOUR PLAN)



COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: bhartma  
 DATE PLOTTED: 3/29/2018 9:46:55 AM  
 FILE NAME: D:\60T01-sht-staging1-01.dgn  
 PLOT DRIVER: ILpdf.plt  
 PEN TABLE: plot.tbl

**HRGreen**  
 HRGreen.com  
 Illinois Professional Design Firm  
 #184-001322

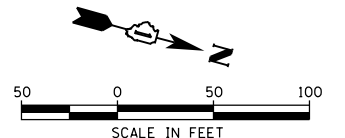
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| PLOT DATE = 3/29/2018                    | DATE - 3/29/18 | REVISED - |

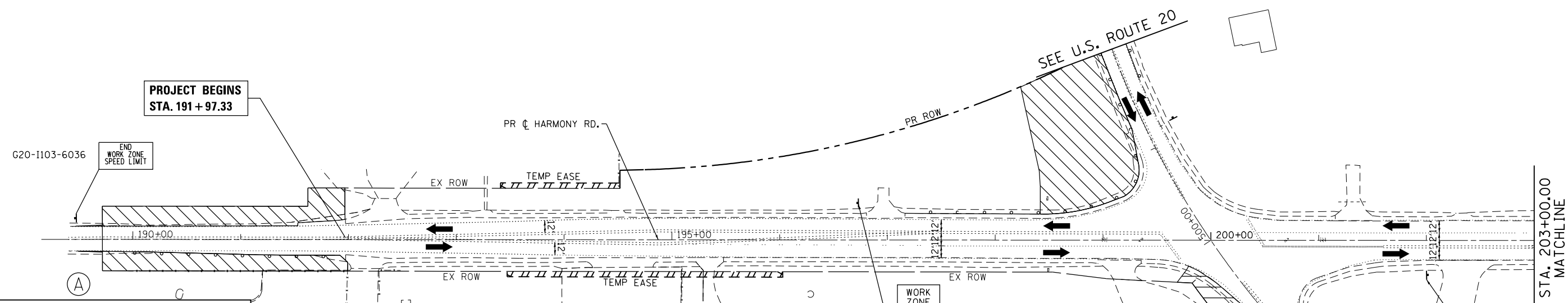
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20  
 CONSTRUCTION STAGING: PRE-STAGE**

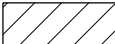








SCALE: 1" = 50' SHEET NO. 3 OF 13 SHEETS STA. TO STA.

|                    |              |                |                           |              |
|--------------------|--------------|----------------|---------------------------|--------------|
| F.A.P. RTE. 525    | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135          | SHEET NO. 34 |
| CONTRACT NO. 60T01 |              |                | ILLINOIS FED. AID PROJECT |              |

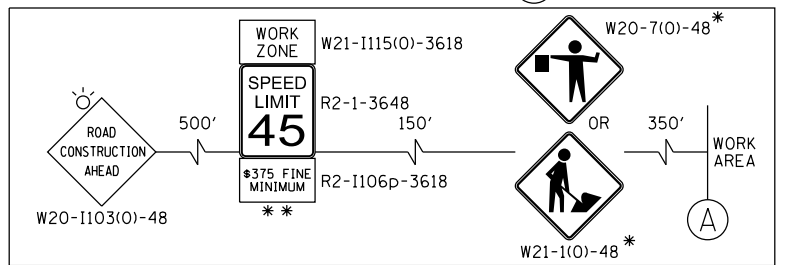




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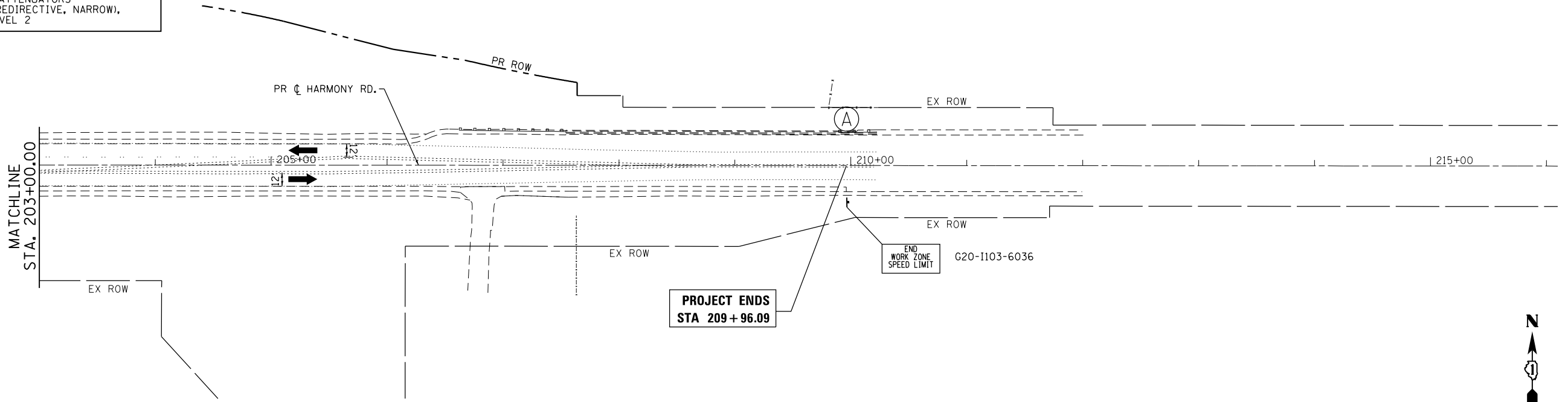
-  WORK ZONE
-  DIRECTION OF TRAFFIC
-  MAINTENANCE OF TRAFFIC SIGN
-  TEMPORARY CONCRETE BARRIER
-  TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL FLASHING LIGHT 50' C-C ON TANGENT, 20' C-C ON TAPERS AND 12' ON RADII
-  TEMPORARY PAVEMENT
-  DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT (50' C-C, 25' ON CURVES, 20' ON TAPERS)
-  TYPE III BARRICADE WITH FLASHING LIGHTS
-  IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW, TEST LEVEL 2)

**ADVANCED SIGNING DETAIL**



**NOTES:**

- \* SIGN SHALL BE TAKEN DOWN WHEN WORKERS OR FLAGGERS ARE NOT PRESENT.
- \*\* PLACE WORK ZONE SPEED LIMIT SIGNING 500' FROM WORK ZONE AND WITHIN 500' DOWNSTREAM OF ALL MAJOR INTERSECTIONS.
- CHANGEABLE MESSAGE SIGNS ON ALL APPROACHES WITH MESSAGES (SEE DETOUR PLAN)



COMPANY NAME: HRGreen  
 PROJECT CONTACT: bhartma  
 DATE PLOTTED: 3/29/2018 9:15:00 AM  
 FILE NAME: D:\60101\staging\02.dgn  
 PLOT DRIVER: ILpdf.plt  
 PEN TABLE: plot.tbl

**HRGreen**  
 HRGreen.com  
 Illinois Professional Design Firm  
 #184-001322

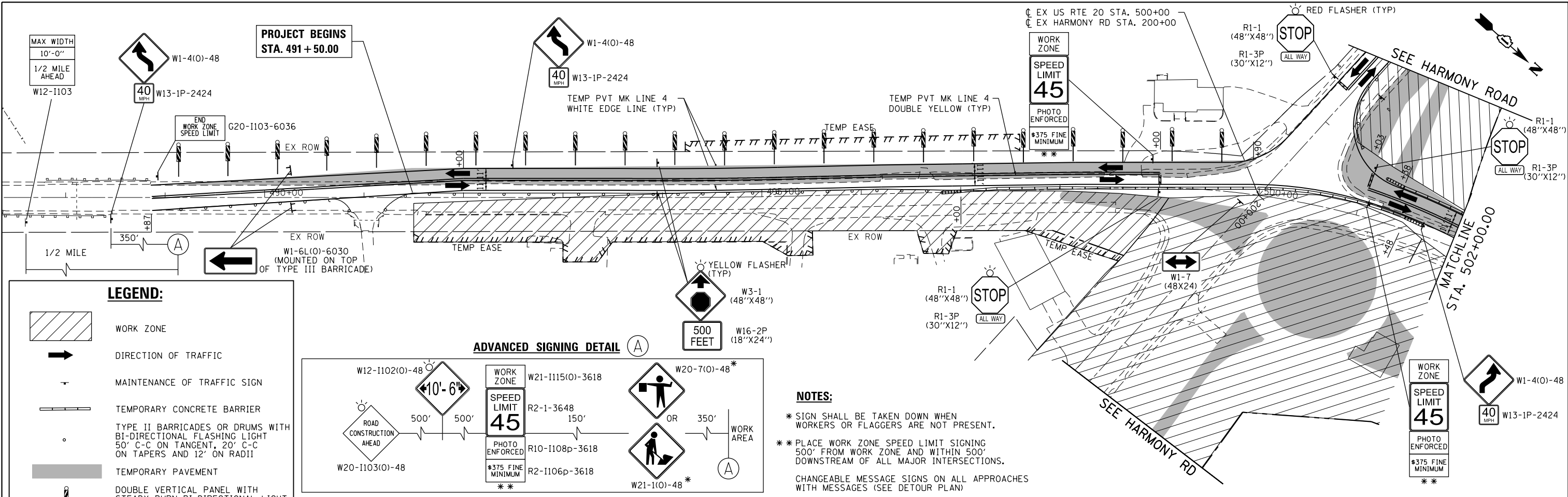
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| PLOT SCALE = 1" = 50'               | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018               | DATE - 3/29/18 | REVISED - |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**HARMONY ROAD  
 CONSTRUCTION STAGING: PRE-STAGE**

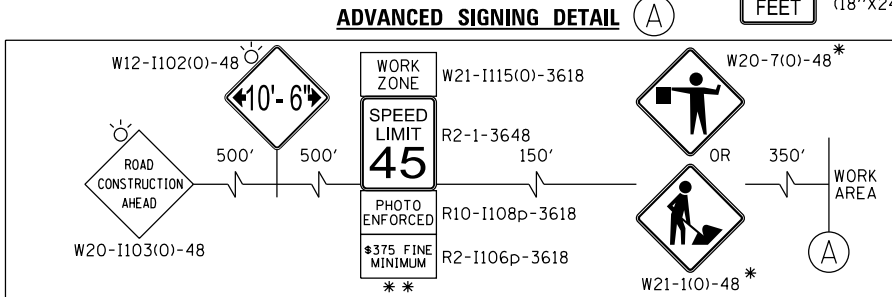
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|                    |              |                |   |              |
|--------------------|--------------|----------------|---|--------------|
| F.A.P. RTE. 525    | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135                              | SHEET NO. 35 |
| CONTRACT NO. 60T01 |              |                | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |              |



**LEGEND:**

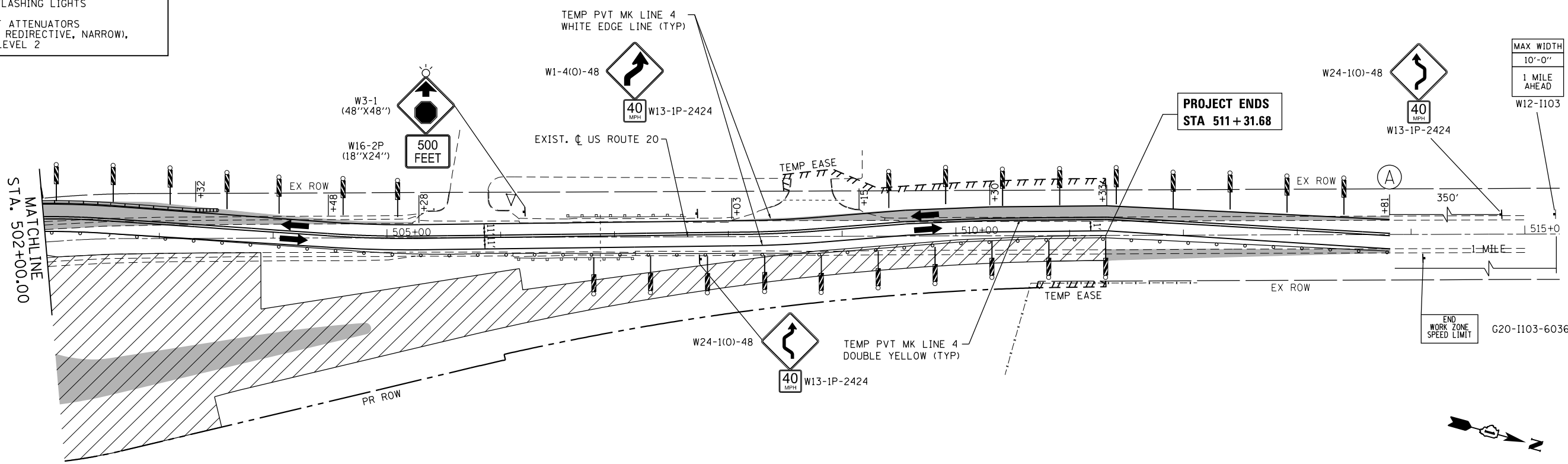
- WORK ZONE
- DIRECTION OF TRAFFIC
- MAINTENANCE OF TRAFFIC SIGN
- TEMPORARY CONCRETE BARRIER
- TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL FLASHING LIGHT 50' C-C ON TANGENT, 20' C-C ON TAPERS AND 12' ON RADII
- TEMPORARY PAVEMENT
- DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT (50'C-C, 25' ON CURVES, 20' ON TAPERS)
- TYPE III BARRICADE WITH FLASHING LIGHTS
- IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW, TEST LEVEL 2)



**NOTES:**

- \* SIGN SHALL BE TAKEN DOWN WHEN WORKERS OR FLAGGERS ARE NOT PRESENT.
- \*\* PLACE WORK ZONE SPEED LIMIT SIGNING 500' FROM WORK ZONE AND WITHIN 500' DOWNSTREAM OF ALL MAJOR INTERSECTIONS.

CHANGEABLE MESSAGE SIGNS ON ALL APPROACHES WITH MESSAGES (SEE DETOUR PLAN)



COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: bhartma  
 DATE PLOTTED: 5/7/2018 4:15:46 PM  
 FILE NAME: D:\60701-sht-staging2-01.dgn  
 PLOT DRIVER: ILpdf.plt  
 PEN TABLE: plot.tbl

**HRGreen**  
 HRGreen.com  
 Illinois Professional Design Firm  
 #184-001322

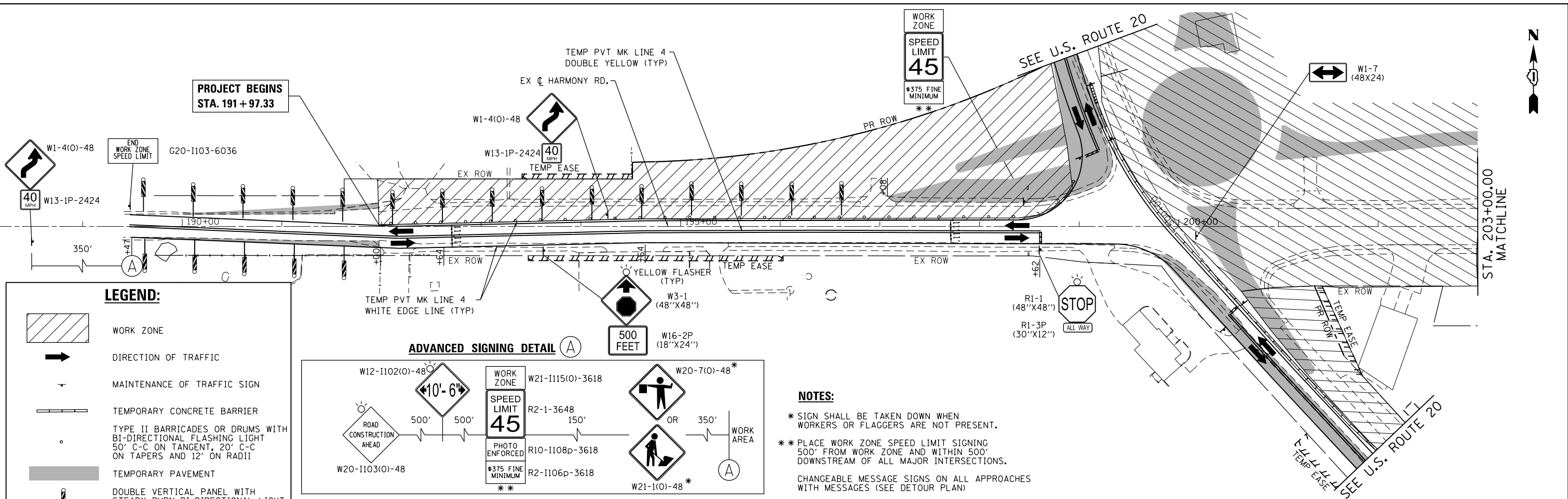
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| FILE NAME = D:\60701-sht-staging2-01.dgn | DRAWN - DMS    | REVISED -    |        |
| PLOT SCALE = 1" = 50'                    | CHECKED -      | REVISED -    |        |
| PLOT DATE = 5/7/2018                     | DATE - 3/29/18 | REVISED -    |        |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20  
 CONSTRUCTION STAGING: STAGE 1**

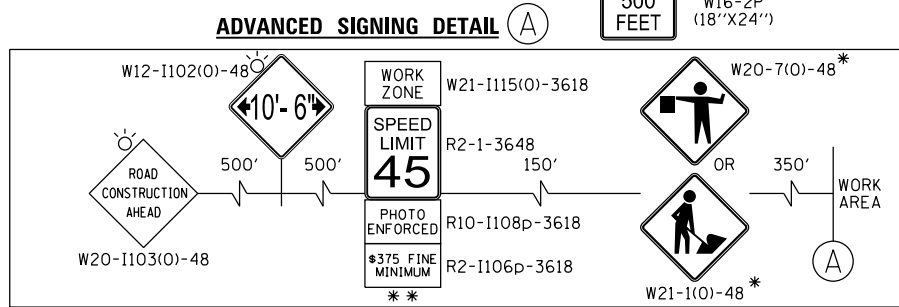
SCALE: 1" = 50' SHEET NO. 5 OF 13 SHEETS STA. TO STA.

|                    |              |                |   |              |
|--------------------|--------------|----------------|---|--------------|
| F.A.P. RTE. 525    | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135                              | SHEET NO. 36 |
| CONTRACT NO. 60T01 |              |                | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |              |



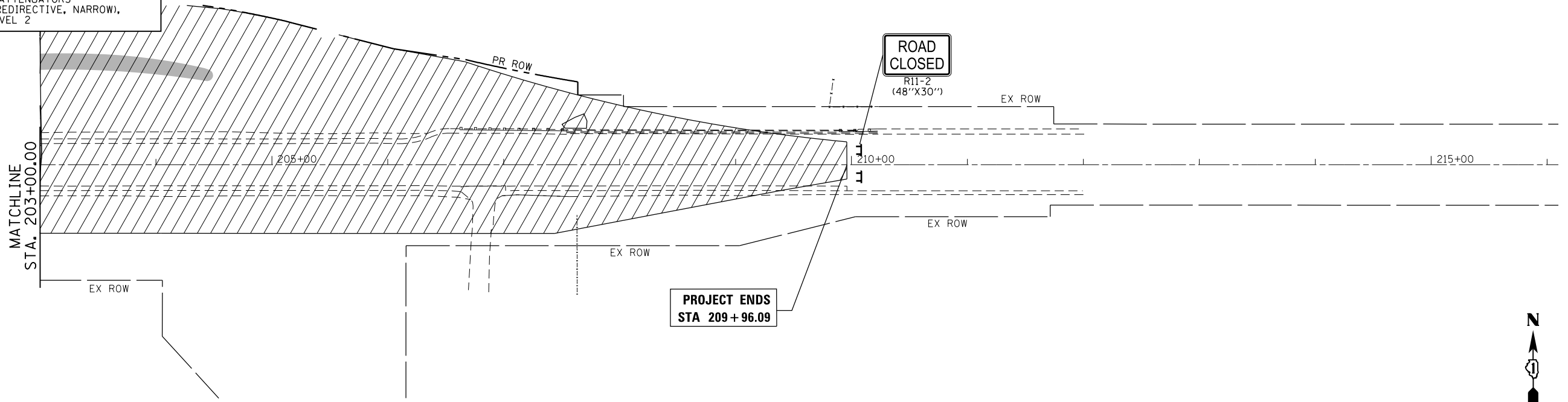
**LEGEND:**

- WORK ZONE
- DIRECTION OF TRAFFIC
- MAINTENANCE OF TRAFFIC SIGN
- TEMPORARY CONCRETE BARRIER
- TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL FLASHING LIGHT 50' C-C ON TANGENT, 20' C-C ON TAPERS AND 12' ON RADII
- TEMPORARY PAVEMENT
- DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT (50'C-C, 25' ON CURVES, 20' ON TAPERS)
- TYPE III BARRICADE WITH FLASHING LIGHTS
- IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2



**NOTES:**

- \* SIGN SHALL BE TAKEN DOWN WHEN WORKERS OR FLAGGERS ARE NOT PRESENT.
- \*\* PLACE WORK ZONE SPEED LIMIT SIGNING 500' FROM WORK ZONE AND WITHIN 500' DOWNSTREAM OF ALL MAJOR INTERSECTIONS.
- CHANGEABLE MESSAGE SIGNS ON ALL APPROACHES WITH MESSAGES (SEE DETOUR PLAN)



COMPANY NAME: HRGreen  
 PROJECT CONTACT: bhartha  
 DATE PLOTTED: 3/29/2018 9:15:13 AM  
 FILE NAME: D:\60101\staging2-02.dgn  
 PLOT DRIVER: ILpdf.plt  
 PEN TABLE: plot.tbl



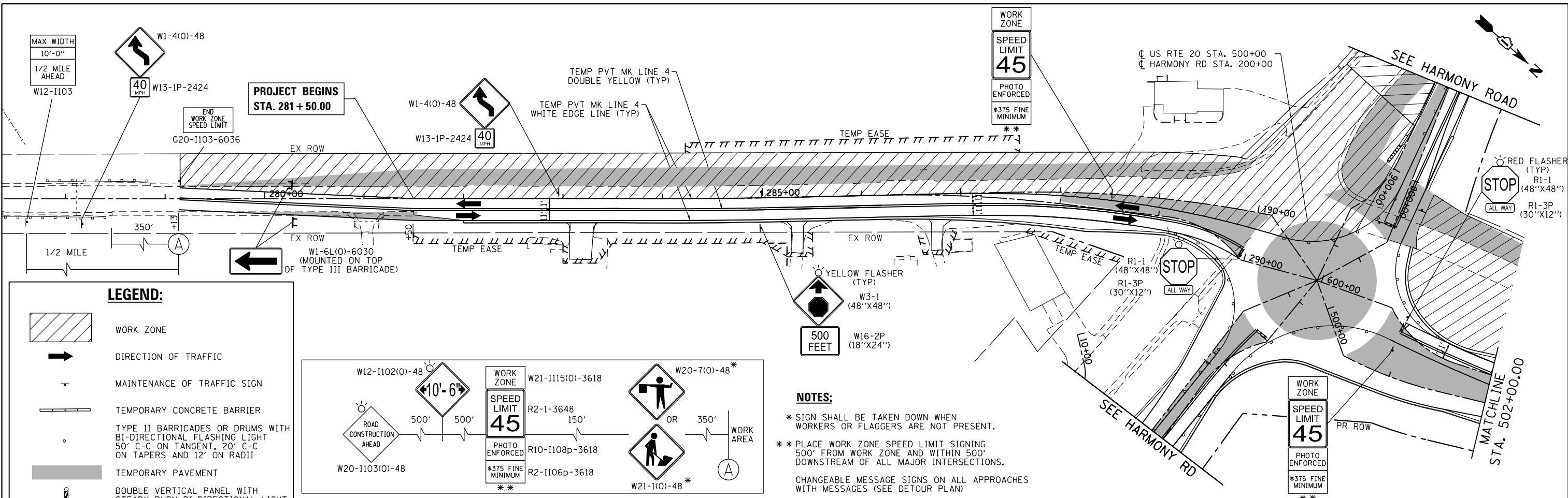
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| USER NAME = bhartha                  | DESIGNED - BH  | REVISED - |
| FILE NAME = D:\60101\staging2-02.dgn | DRAWN - DMS    | REVISED - |
| PLOT SCALE = 1" = 50'                | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                | DATE - 3/29/18 | REVISED - |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**HARMONY ROAD  
 CONSTRUCTION STAGING: STAGE 1**

SCALE: 1" = 50' SHEET NO. 6 OF 13 SHEETS STA. TO STA.

|   |              |                |                  |              |
|---|--------------|----------------|------------------|--------------|
| F.A.P. RTE. 525                               | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135 | SHEET NO. 37 |
| CONTRACT NO. 60T01                            |              |                |                  |              |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |              |                |                  |              |



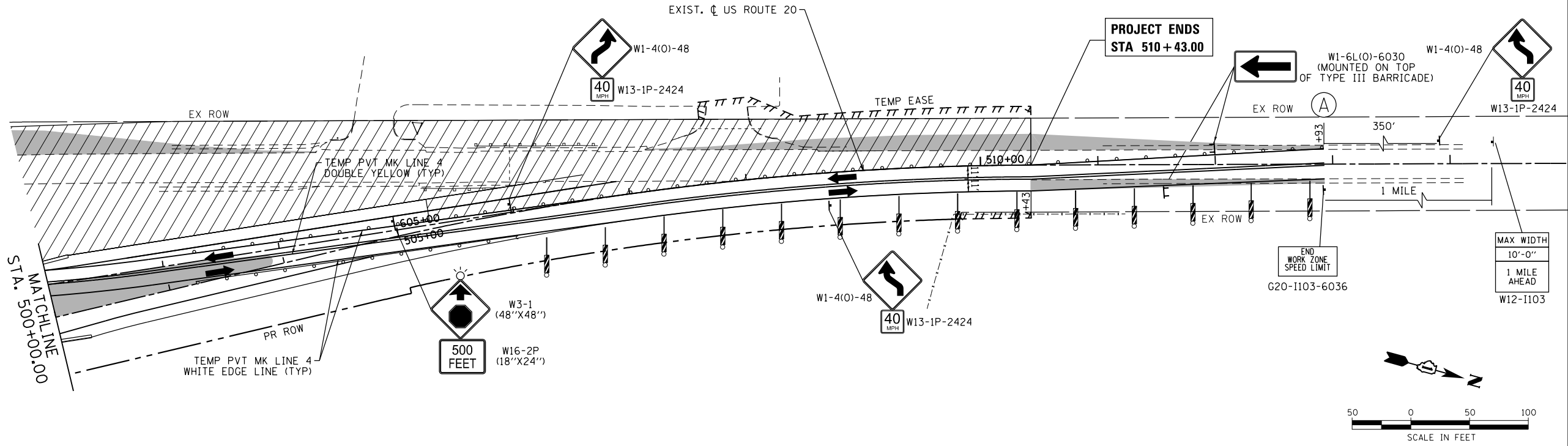
**LEGEND:**

- WORK ZONE
- DIRECTION OF TRAFFIC
- MAINTENANCE OF TRAFFIC SIGN
- TEMPORARY CONCRETE BARRIER
- TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL FLASHING LIGHT 50' C-C ON TANGENT, 20' C-C ON TAPERS AND 12' ON RADII
- TEMPORARY PAVEMENT
- DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT (50'C-C, 25' ON CURVES, 20' ON TAPERS)
- TYPE III BARRICADE WITH FLASHING LIGHTS
- IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW, TEST LEVEL 2)

**NOTES:**

- \* SIGN SHALL BE TAKEN DOWN WHEN WORKERS OR FLAGGERS ARE NOT PRESENT.
- \*\* PLACE WORK ZONE SPEED LIMIT SIGNING 500' FROM WORK ZONE AND WITHIN 500' DOWNSTREAM OF ALL MAJOR INTERSECTIONS.

CHANGEABLE MESSAGE SIGNS ON ALL APPROACHES WITH MESSAGES (SEE DETOUR PLAN)



COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: bhartha  
 PROJECT CONTACT: DMS  
 DATE PLOTTED: 3/29/2018 9:16:20 AM  
 FILE NAME: D:\60101\staging3-01.dgn  
 PLOT DRIVER: ILpdf.plt  
 PEN TABLE: plot.tbl

**HRGreen**  
 HRGreen.com  
 Illinois Professional Design Firm  
 #184-001322

|                                      |                |           |
|--------------------------------------|----------------|-----------|
| USER NAME = bhartha                  | DESIGNED - BH  | REVISED - |
| FILE NAME = D:\60101\staging3-01.dgn | DRAWN - DMS    | REVISED - |
| PLOT SCALE = 1" = 50'                | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                | DATE - 3/29/18 | REVISED - |

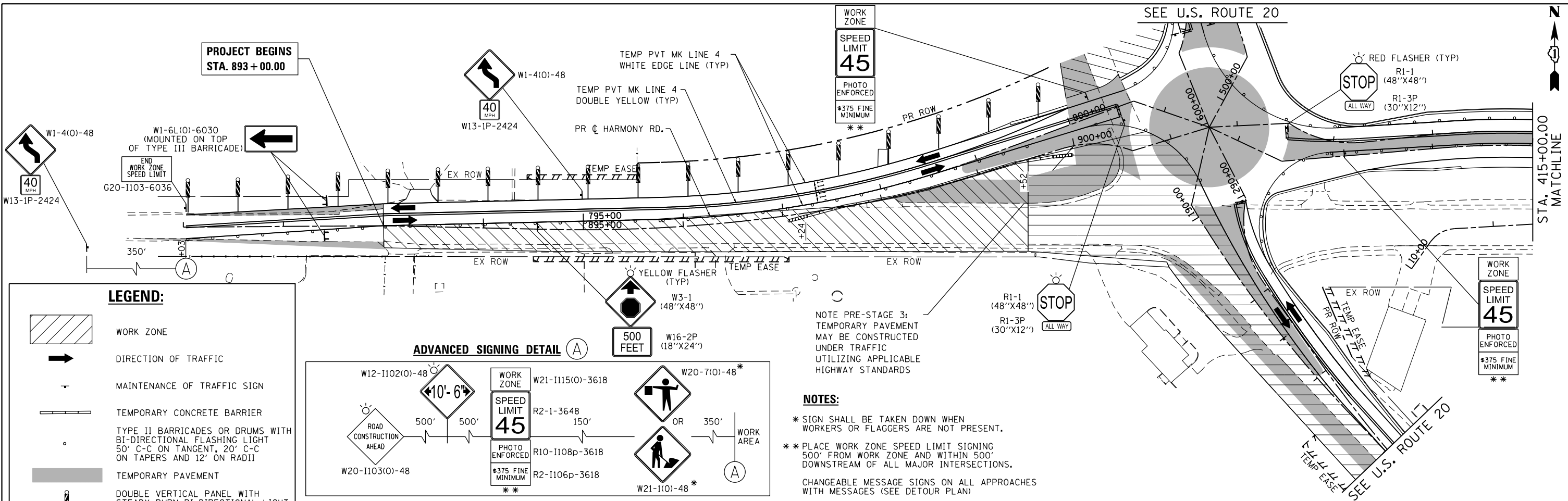
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20  
 CONSTRUCTION STAGING: STAGE 2**

SCALE: 1" = 50' SHEET NO. 7 OF 13 SHEETS STA. TO STA.

|   |              |                |                  |              |
|---|--------------|----------------|------------------|--------------|
| F.A.P. RTE. 525                               | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135 | SHEET NO. 38 |
| CONTRACT NO. 60T01                            |              |                |                  |              |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |              |                |                  |              |





**LEGEND:**

|  |   |
|--|---|
|  | WORK ZONE   |
|  | DIRECTION OF TRAFFIC  |
|  | MAINTENANCE OF TRAFFIC SIGN   |
|  | TEMPORARY CONCRETE BARRIER  |
|  | TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL FLASHING LIGHT (50' C-C ON TANGENT, 20' C-C ON TAPERS AND 12' ON RADII) |
|  | TEMPORARY PAVEMENT  |
|  | DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT (50' C-C, 25' ON CURVES, 20' ON TAPERS)                     |
|  | TYPE III BARRICADE WITH FLASHING LIGHTS   |
|  | IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2  |

COMPANY NAME: HRGreen  
 PROJECT CONTACT: bhartma  
 DATE PLOTTED: 3/29/2018 9:16:27 AM  
 FILE NAME: D:\60101\staging3-02.dgn  
 PLOT DRIVER: ILpdf.plt  
 PEN TABLE: plot.tbl

**HRGreen**  
 HRGreen.com  
 Illinois Professional Design Firm  
 #184-001322

|                                      |                |           |
|--------------------------------------|----------------|-----------|
| USER NAME = bhartma                  | DESIGNED - BH  | REVISED - |
| FILE NAME = D:\60101\staging3-02.dgn | DRAWN - DMS    | REVISED - |
| PLOT SCALE = 1" = 50'                | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                | DATE - 3/29/18 | REVISED - |

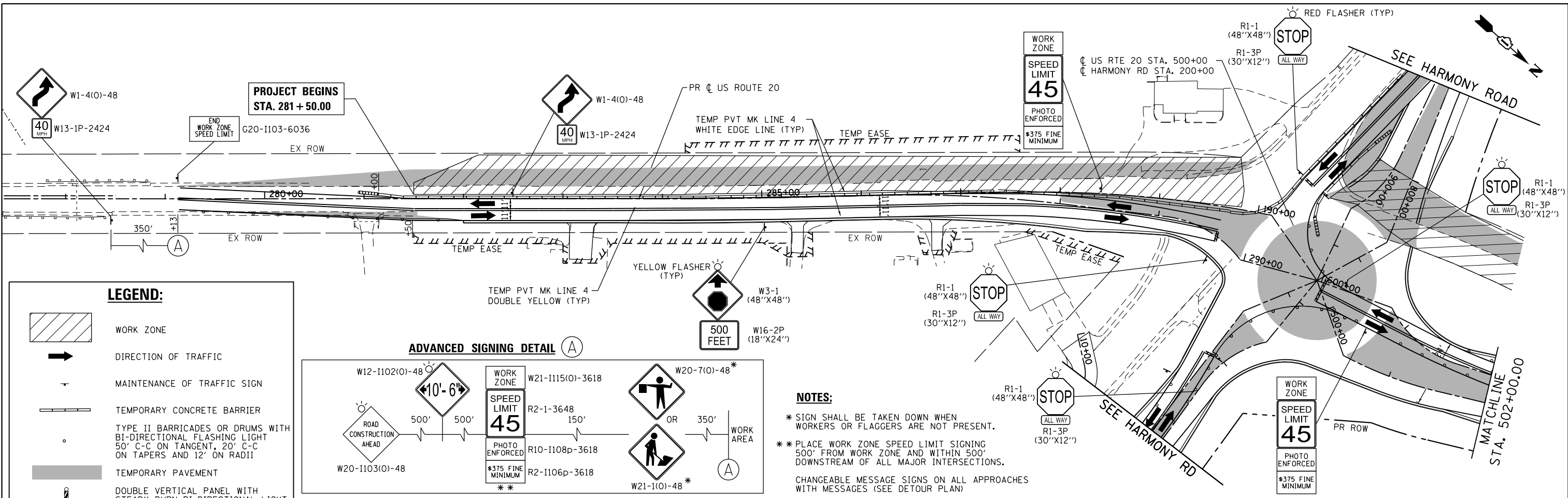
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**HARMONY ROAD  
 CONSTRUCTION STAGING: STAGE 2**

SCALE: 1" = 50'    SHEET NO. 8 OF 13 SHEETS    STA.    TO STA.

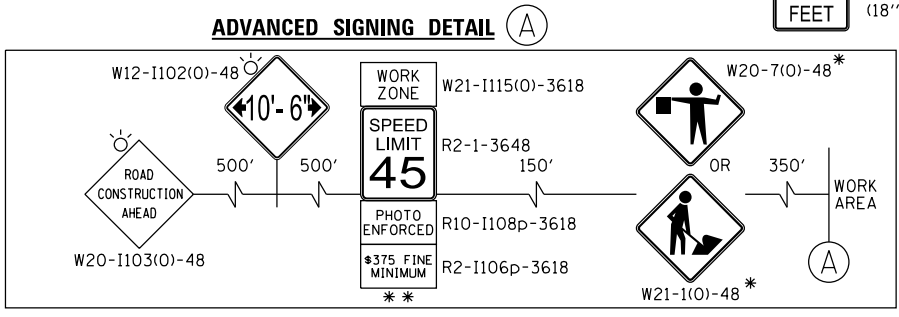
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|--------------------|--------------|----------------|---|--------------|
| F.A.P. RTE. 525    | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135                              | SHEET NO. 39 |
| CONTRACT NO. 60T01 |              |                | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |              |





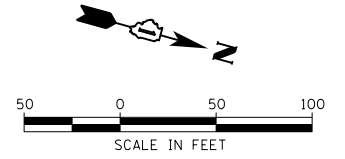
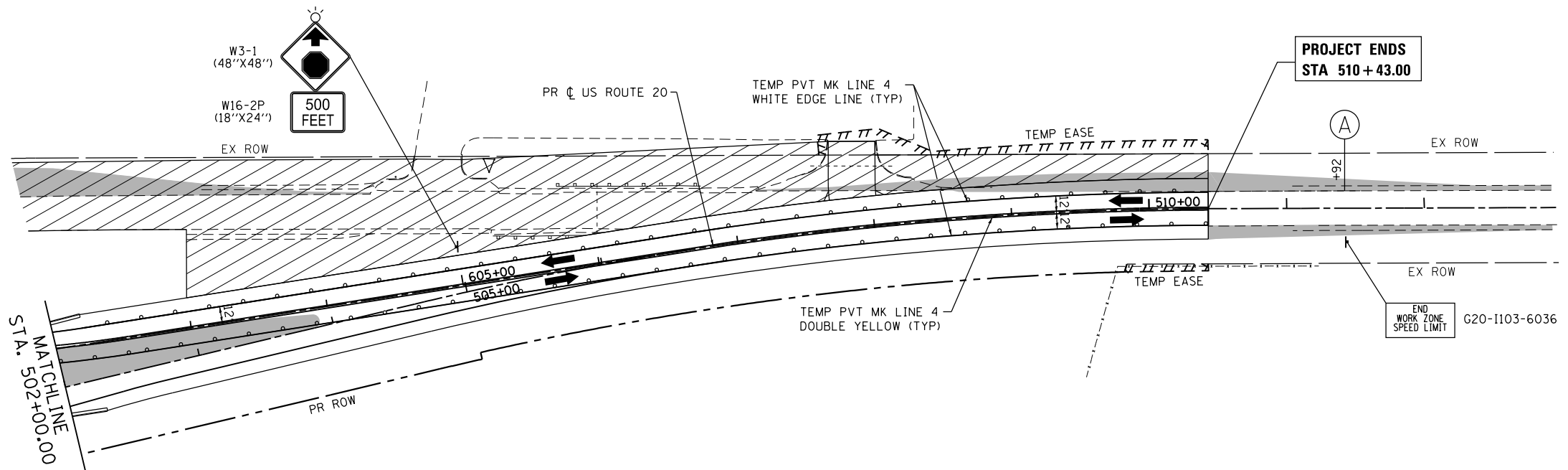
**LEGEND:**

- WORK ZONE
- DIRECTION OF TRAFFIC
- MAINTENANCE OF TRAFFIC SIGN
- TEMPORARY CONCRETE BARRIER
- TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL FLASHING LIGHT 50' C-C ON TANGENT, 20' C-C ON TAPERS AND 12' ON RADII
- TEMPORARY PAVEMENT
- DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT (50'C-C, 25' ON CURVES, 20' ON TAPERS)
- TYPE III BARRICADE WITH FLASHING LIGHTS
- IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2



**NOTES:**

- \* SIGN SHALL BE TAKEN DOWN WHEN WORKERS OR FLAGGERS ARE NOT PRESENT.
- \* PLACE WORK ZONE SPEED LIMIT SIGNING 500' FROM WORK ZONE AND WITHIN 500' DOWNSTREAM OF ALL MAJOR INTERSECTIONS.
- CHANGEABLE MESSAGE SIGNS ON ALL APPROACHES WITH MESSAGES (SEE DETOUR PLAN)



COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: bhartma  
 DATE PLOTTED: 3/29/2018 10:54:18 AM  
 FILE NAME: D:\60101-sht-staging4-01.dgn  
 PLOT DRIVER: ILpdf.plt  
 PEN TABLE: plot.tbl

**HRGreen**  
 HRGreen.com  
 Illinois Professional Design Firm  
 #184-001322

|  |                |           |
|--|----------------|-----------|
| USER NAME = bhartma                      | DESIGNED - BH  | REVISED - |
| FILE NAME = D:\60101-sht-staging4-01.dgn | DRAWN - DMS    | REVISED - |
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| PLOT DATE = 3/29/2018                    | DATE - 3/29/18 | REVISED - |

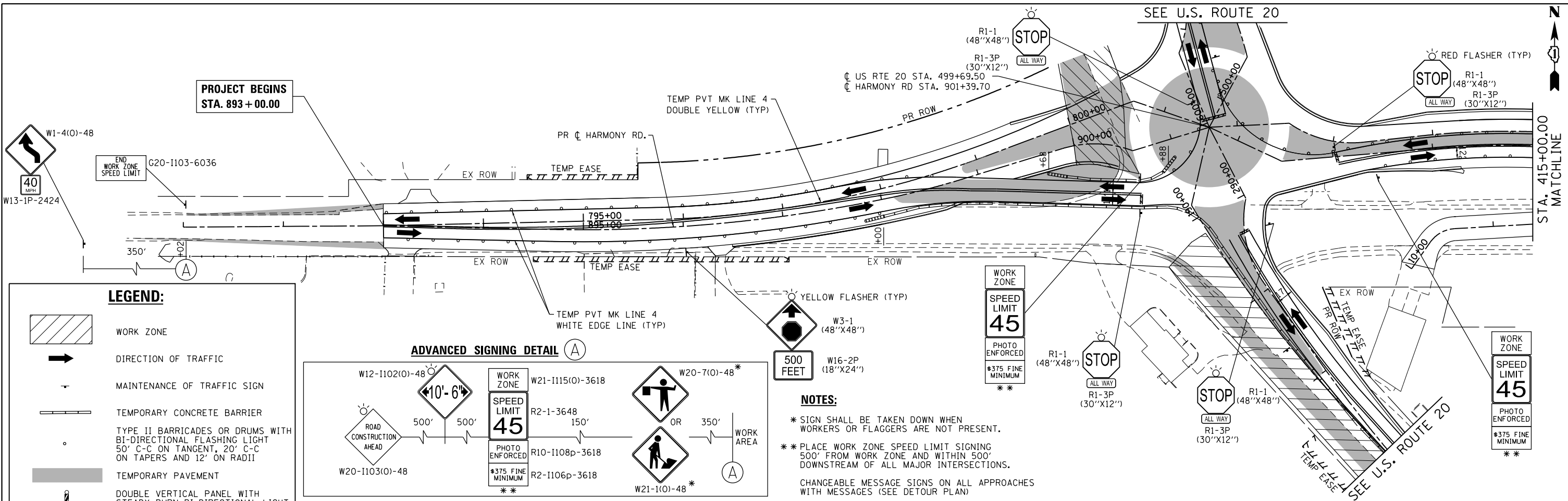
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20  
 CONSTRUCTION STAGING: STAGE 3**

SCALE: 1" = 50' SHEET NO. 9 OF 13 SHEETS STA. TO STA.

|                    |              |                |   |              |
|--------------------|--------------|----------------|---|--------------|
| F.A.P. RTE. 525    | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135                              | SHEET NO. 40 |
| CONTRACT NO. 60T01 |              |                | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |              |

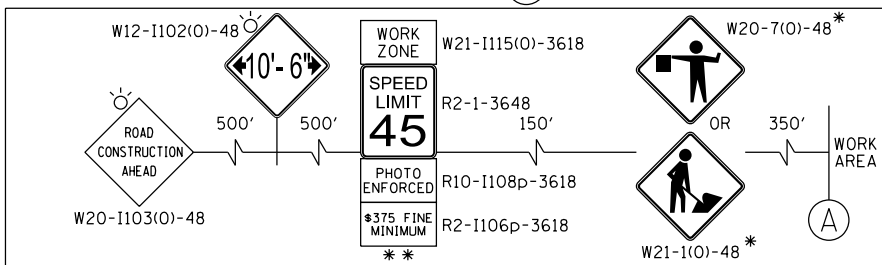




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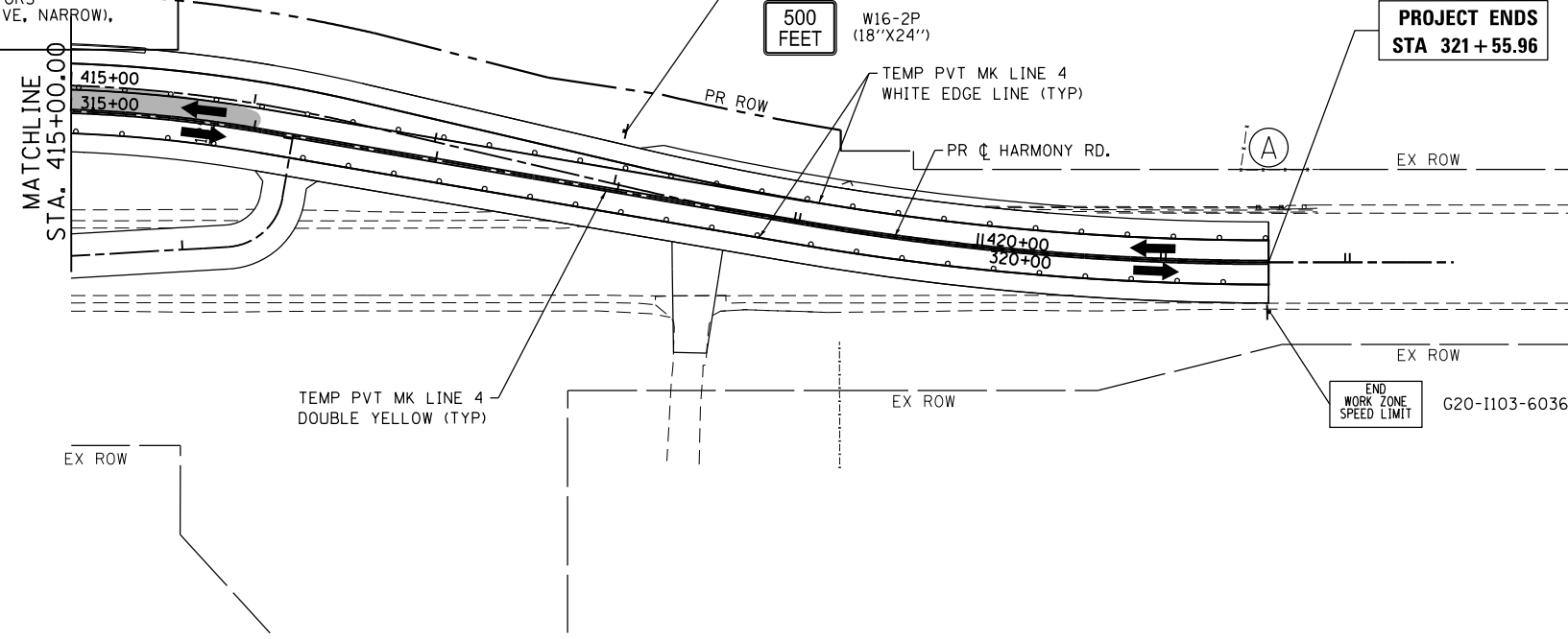
- WORK ZONE
- DIRECTION OF TRAFFIC
- MAINTENANCE OF TRAFFIC SIGN
- TEMPORARY CONCRETE BARRIER
- TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL FLASHING LIGHT (50' C-C ON TANGENT, 20' C-C ON TAPERS AND 12' ON RADII)
- TEMPORARY PAVEMENT
- DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT (50' C-C, 25' ON CURVES, 20' ON TAPERS)
- TYPE III BARRICADE WITH FLASHING LIGHTS
- IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2

**ADVANCED SIGNING DETAIL (A)**



**NOTES:**

- \* SIGN SHALL BE TAKEN DOWN WHEN WORKERS OR FLAGGERS ARE NOT PRESENT.
- \*\* PLACE WORK ZONE SPEED LIMIT SIGNING 500' FROM WORK ZONE AND WITHIN 500' DOWNSTREAM OF ALL MAJOR INTERSECTIONS.
- CHANGEABLE MESSAGE SIGNS ON ALL APPROACHES WITH MESSAGES (SEE DETOUR PLAN)



COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: bhartma  
 DATE PLOTTED: 3/29/2018 10:34:25 AM  
 FILE NAME: D:\60101\ent-staging4-02.dgn  
 PLOT DRIVER: ILpdf.plt  
 PEN TABLE: plot.tbl

**HRGreen**  
 HRGreen.com  
 Illinois Professional Design Firm  
 #184-001322

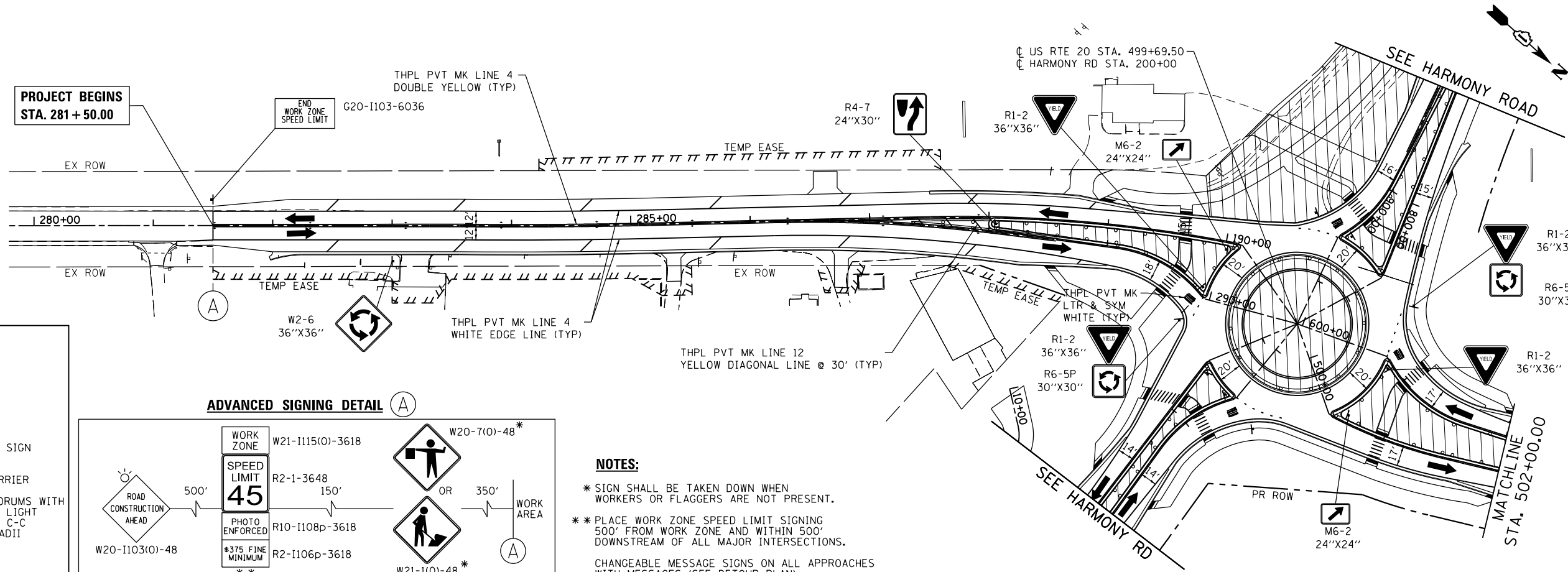
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|--|----------------|-----------|
| USER NAME = bhartma                      | DESIGNED - BH  | REVISED - |
| FILE NAME = D:\60101\ent-staging4-02.dgn | DRAWN - DMS    | REVISED - |
| PLOT SCALE = 1" = 50'                    | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                    | DATE - 3/29/18 | REVISED - |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**HARMONY ROAD  
 CONSTRUCTION STAGING: STAGE 3**  
 SCALE: 1" = 50' SHEET NO. 10 OF 13 SHEETS STA. TO STA.

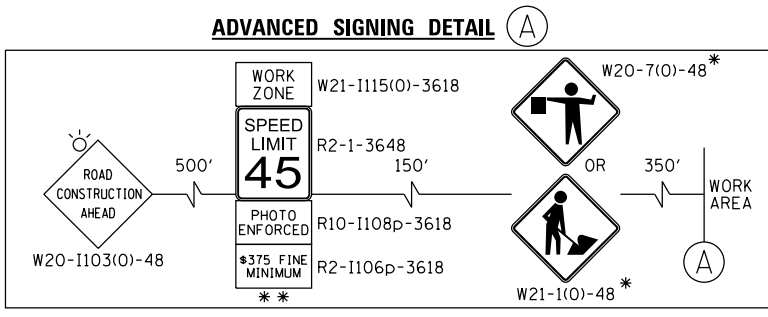
|   |              |                |                  |              |
|---|--------------|----------------|------------------|--------------|
| F.A.P. RTE. 525                               | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135 | SHEET NO. 41 |
| CONTRACT NO. 60T01                            |              |                |                  |              |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |              |                |                  |              |





**LEGEND:**

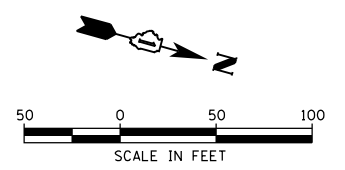
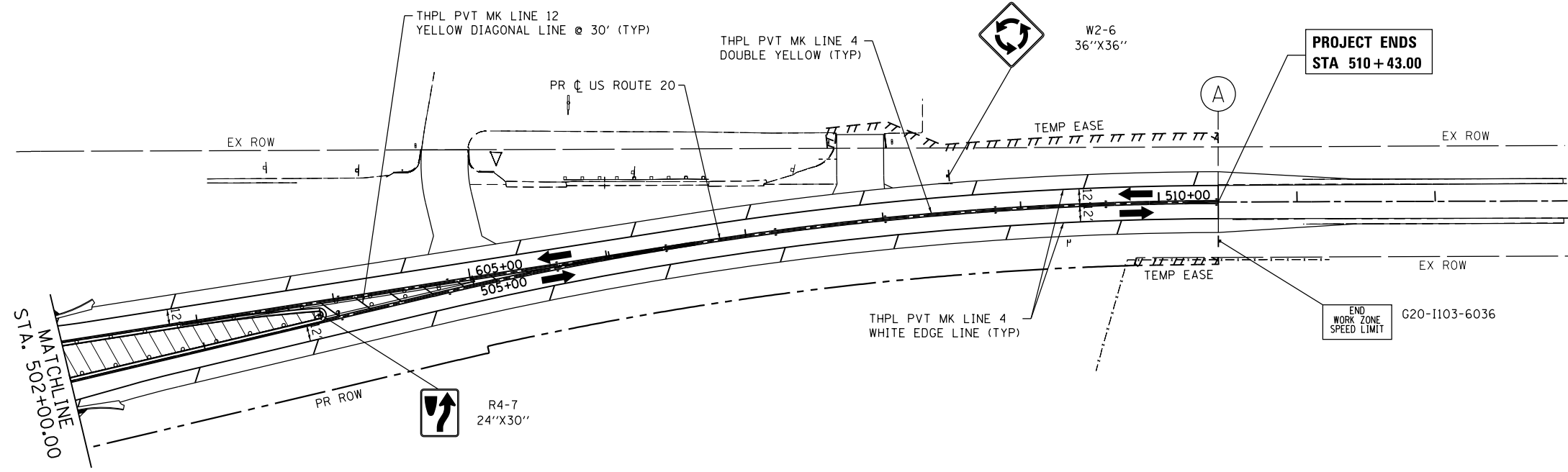
- WORK ZONE
- DIRECTION OF TRAFFIC
- MAINTENANCE OF TRAFFIC SIGN
- TEMPORARY CONCRETE BARRIER
- TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL FLASHING LIGHT (50' C-C ON TANGENT, 20' C-C ON TAPERS AND 12' ON RADII)
- TEMPORARY PAVEMENT
- DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT (50' C-C, 25' ON CURVES, 20' ON TAPERS)
- TYPE III BARRICADE WITH FLASHING LIGHTS
- IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW, TEST LEVEL 2)



**NOTES:**

- \* SIGN SHALL BE TAKEN DOWN WHEN WORKERS OR FLAGGERS ARE NOT PRESENT.
- \*\* PLACE WORK ZONE SPEED LIMIT SIGNING 500' FROM WORK ZONE AND WITHIN 500' DOWNSTREAM OF ALL MAJOR INTERSECTIONS.

CHANGEABLE MESSAGE SIGNS ON ALL APPROACHES WITH MESSAGES (SEE DETOUR PLAN)



COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: bhartha  
 DATE PLOTTED: 3/29/2018 9:15:48 AM  
 FILE NAME: D:\60101\staging5a-01.dgn  
 PLOT DRIVER: ilpdf.plt  
 PEN TABLE: plot.tbl

**HRGreen**  
 HRGreen.com  
 Illinois Professional Design Firm  
 #184-001322

|                                       |                |           |
|---------------------------------------|----------------|-----------|
| USER NAME = bhartha                   | DESIGNED - BH  | REVISED - |
| FILE NAME = D:\60101\staging5a-01.dgn | DRAWN - DMS    | REVISED - |
| PLOT SCALE = 1" = 50'                 | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                 | DATE - 3/29/18 | REVISED - |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20  
 CONSTRUCTION STAGING: STAGE 4**

SCALE: 1" = 50'    SHEET NO. 11 OF 13 SHEETS    STA.    TO STA.

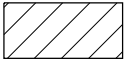








|                    |              |                |                           |              |
|--------------------|--------------|----------------|---------------------------|--------------|
| F.A.P. RTE. 525    | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135          | SHEET NO. 42 |
| CONTRACT NO. 60T01 |              |                | ILLINOIS FED. AID PROJECT |              |

SEE U.S. ROUTE 20

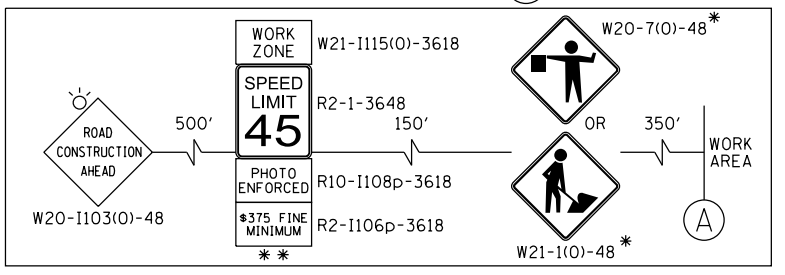
PROJECT BEGINS  
STA. 893 + 00.00

STA. 415+00.00  
MATCHLINE

**LEGEND:**

-  WORK ZONE
-  DIRECTION OF TRAFFIC
-  MAINTENANCE OF TRAFFIC SIGN
-  TEMPORARY CONCRETE BARRIER
-  TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL FLASHING LIGHT 50' C-C ON TANGENT, 20' C-C ON TAPERS AND 12' ON RADII
-  TEMPORARY PAVEMENT
-  DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT (50'C-C, 25' ON CURVES, 20' ON TAPERS)
-  TYPE III BARRICADE WITH FLASHING LIGHTS
-  IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2

**ADVANCED SIGNING DETAIL**



**NOTES:**

- \* SIGN SHALL BE TAKEN DOWN WHEN WORKERS OR FLAGGERS ARE NOT PRESENT.
- \*\* PLACE WORK ZONE SPEED LIMIT SIGNING 500' FROM WORK ZONE AND WITHIN 500' DOWNSTREAM OF ALL MAJOR INTERSECTIONS.
- CHANGEABLE MESSAGE SIGNS ON ALL APPROACHES WITH MESSAGES (SEE DETOUR PLAN)

MATCHLINE  
STA. 415+00.00

PROJECT ENDS  
STA 321 + 59.96

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: #PROJECTCONTACT#  
 DATE PLOTTED: 3/29/2018 9:55:55 AM  
 FILE NAME: D:\60701\staging\5a-02.dgn  
 PLOT DRIVER: ILpdf.plt  
 PEN TABLE: plot.tbl



|  |                |           |
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| USER NAME = bharma                     | DESIGNED - BH  | REVISED - |
| FILE NAME = D:\60701\staging\5a-02.dgn | DRAWN - DMS    | REVISED - |
| PLOT SCALE = 1" = 50'                  | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                  | DATE - 3/29/18 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**HARMONY ROAD  
CONSTRUCTION STAGING: STAGE 4**

SCALE: 1" = 50' SHEET NO. 12 OF 13 SHEETS STA. TO STA.

|                    |              |                |                           |              |
|--------------------|--------------|----------------|---------------------------|--------------|
| F.A.P. RTE. 525    | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135          | SHEET NO. 43 |
| CONTRACT NO. 60T01 |              |                | ILLINOIS FED. AID PROJECT |              |

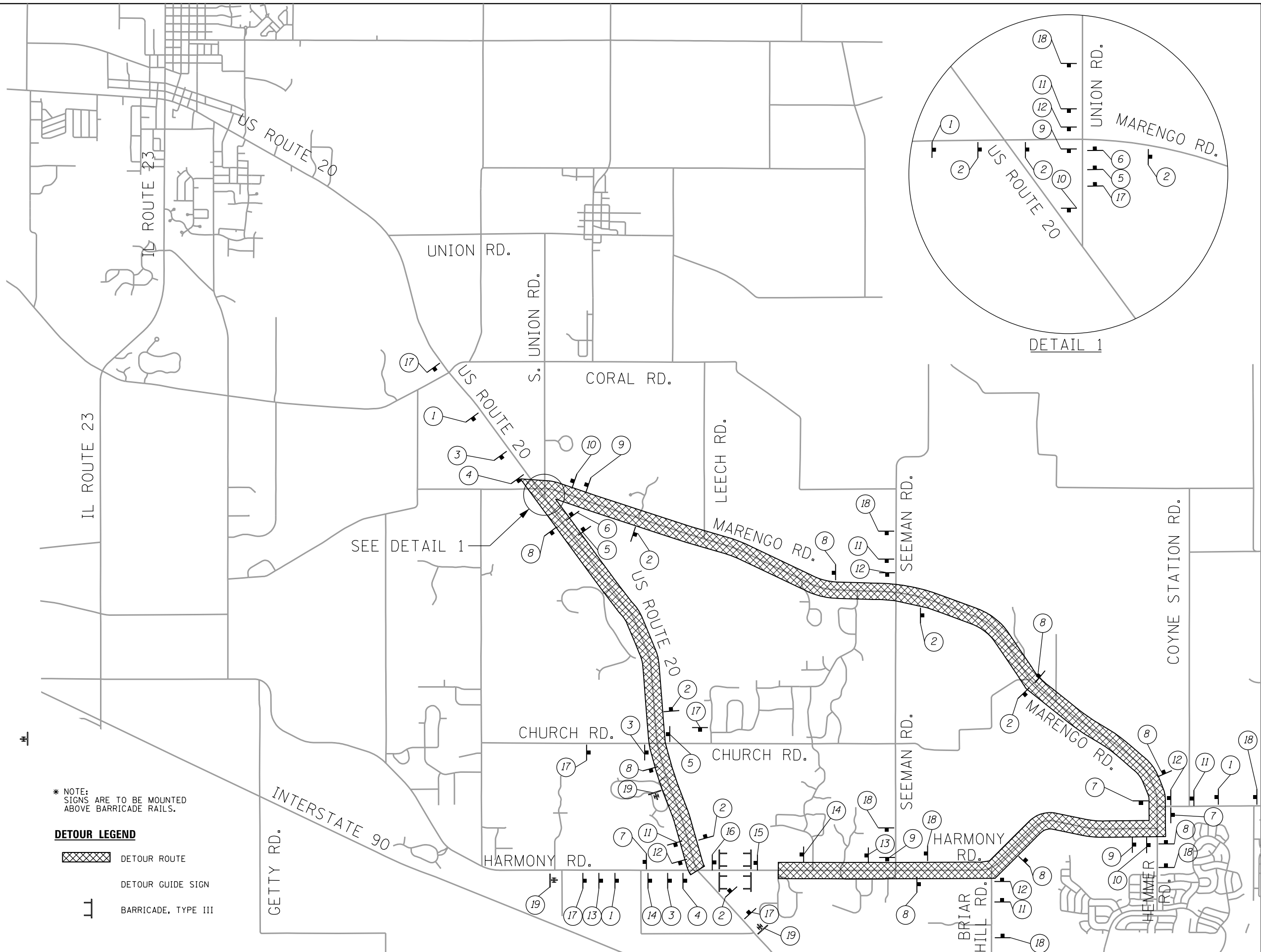
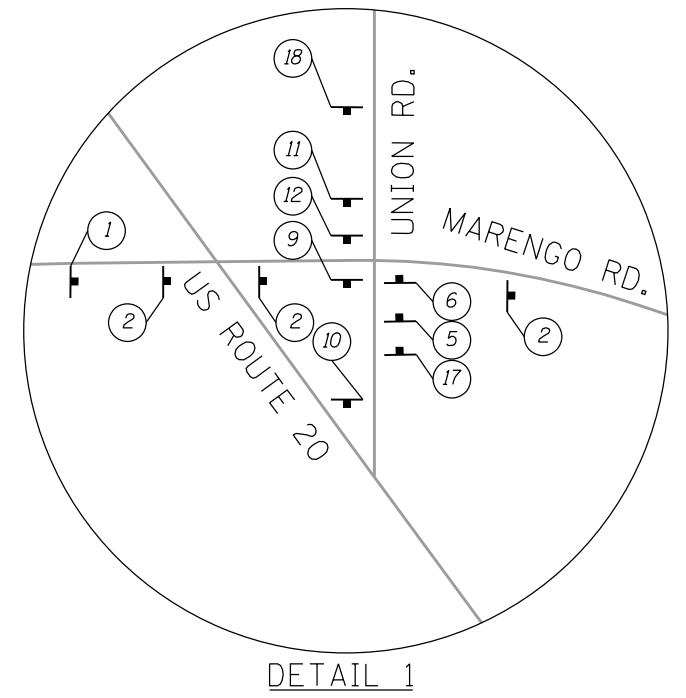


**SIGN LEGEND**

- 1 DETOUR AHEAD  
HARMONY ROAD  
W20-2-4848
- 2 EAST HARMONY ROAD  
DETOUR  
↑
- 3 EAST HARMONY ROAD  
DETOUR  
↶
- 4 EAST HARMONY ROAD  
DETOUR  
←
- 5 EAST HARMONY ROAD  
DETOUR  
↷
- 6 EAST HARMONY ROAD  
DETOUR  
→
- 7 END  
DETOUR
- 8 WEST HARMONY ROAD  
DETOUR  
↑
- 9 WEST HARMONY ROAD  
DETOUR  
↶
- 10 WEST HARMONY ROAD  
DETOUR  
←
- 11 WEST HARMONY ROAD  
DETOUR  
↷
- 12 WEST HARMONY ROAD  
DETOUR  
→
- 13 ROAD CLOSED AHEAD  
W20-3-4848
- 14 ROAD CLOSED 500 FT  
W20-3-4848
- 15 R11-2-4830  
ROAD CLOSED
- 16 R11-2-4830  
ROAD CLOSED  
M4-10L-4818
- 17 EFFECTIVE [DATE]  
EASTBOUND HARMONY  
ROAD CLOSED  
AT U.S. 20  
USE DETOUR
- 18 EFFECTIVE [DATE]  
WESTBOUND HARMONY  
ROAD CLOSED  
AT U.S. 20  
USE DETOUR
- 19 ALL WAY STOP  
BEGINS  
MMM ##  
ONE WEEK PRIOR  
NEW TRAFFIC  
PATTERN  
ALL WAY STOP  
AHEAD  
AFTER STAGE 2  
IMPLEMENTATION

\* NOTE:  
SIGNS ARE TO BE MOUNTED  
ABOVE BARRICADE RAILS.

- DETOUR LEGEND**
- DETOUR ROUTE
  - DETOUR GUIDE SIGN
  - BARRICADE, TYPE III



COMPANY NAME: HRGreen  
 PROJECT CONTACT: HRGreen.com  
 DATE PLOTTED: 3/29/2018 9:46:09 AM  
 FILE NAME: D:\60101\staging\detour-01.dgn  
 PLOT DRIVER: ILpdf.plt  
 PEN TABLE: plot.tbl



|  |                |           |
|--|----------------|-----------|
| USER NAME = bhartha                        | DESIGNED - BH  | REVISED - |
| FILE NAME = D:\60101\staging\detour-01.dgn | DRAWN - DMS    | REVISED - |
| PLOT SCALE = NTS                           | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                      | DATE - 3/29/18 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUGGESTED MAINTENANCE OF TRAFFIC  
DETOUR ROUTE**

SCALE: NTS SHEET NO. 13 OF 13 SHEETS STA. TO STA.

|   |              |                |                  |              |
|---|--------------|----------------|------------------|--------------|
| F.A.P. RTE. 525                               | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135 | SHEET NO. 44 |
| CONTRACT NO. 60T01                            |              |                |                  |              |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |              |                |                  |              |

SOIL EROSION AND SEDIMENT CONTROL CONSTRUCTION SEQUENCE

PRE-STAGE:

1. INSTALL PERIMETER EROSION BARRIER AT LOCATIONS THAT WILL BE IMPACTED BY CONSTRUCTION.
2. INSTALL PERIMETER EROSION CONTROL NEEDED FOR STAGE I CONSTRUCTION. SEE STAGE I EROSION CONTROL PLAN FOR LOCATIONS. THE CONTRACTOR SHALL BE REQUIRED TO INSTALL AND MAINTAIN SILT FENCE AS INDICATED ON THE PLAN PRIOR TO BEGINNING ANY CONSTRUCTION.
3. TEMPORARY SEEDING AND TEMPORARY EROSION CONTROL BLANKET SHALL BE INITIATED IMMEDIATELY UPON COMPLETION OR CESSATION OF DISTURBANCE FOR 14 DAYS, AND THE INSTALLATION SHALL BE COMPLETED BY THE 14TH DAY AFTER NO DISTURBANCE. THE TEMPORARY EROSION CONTROL BLANKET SHALL BE PLACED NO LATER THAN 24 HOURS AFTER THE TEMPORARY SEEDING IS PLACED.
4. TEMPORARY EROSION CONTROL BLANKET SHALL BE USED IN ALL AREAS OF CONCENTRATED FLOW AND IN AREAS OF SHEET FLOW.

STAGE 1:

1. PLACE TEMPORARY SEEDING IN EXPOSED AREAS THAT ARE TO REMAIN EXPOSED. THE TEMPORARY SEEDING SHALL BE INITIATED IMMEDIATELY UPON COMPLETION OR CESSATION OF DISTURBANCE FOR 14 DAYS, AND THE INSTALLATION SHALL BE COMPLETED BY THE 14TH DAY AFTER NO DISTURBANCE.
2. INSTALL TEMPORARY DITCH CHECKS. TEMPORARY DITCH CHECKS SHALL BE INITIATED IMMEDIATELY UPON COMPLETION OR CESSATION OF DISTURBANCE FOR 14 DAYS, AND THE INSTALLATION SHALL BE COMPLETED BY THE 14TH DAY AFTER NO DISTURBANCE.
3. EROSION CONTROL BLANKET SHALL BE USED IN AREAS OF CONCENTRATED FLOW, AND TEMPORARY MULCH SHALL BE USED IN AREAS OF SHEET FLOW.
4. INSTALL FINAL SEEDING/PLANTINGS ON FINAL GRADED EARTH. IF FINAL SEEDING/PLANTINGS ON FINAL GRADED EARTH CANNOT BE INSTALLED THEN PLACE TEMPORARY SEEDING AND EROSION CONTROL BLANKET. THE SEEDING AND/OR PLANTINGS SHALL BE INITIATED IMMEDIATELY UPON COMPLETION OR CESSATION OF DISTURBANCE FOR 14 DAYS, AND THE INSTALLATION SHALL BE COMPLETED BY THE 14TH DAY AFTER NO DISTURBANCE. THE CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS OF THE STORM WATER POLLUTION PREVENTION PLAN SECTION II.B.
5. PERFORM ONGOING MAINTENANCE OF ALL EROSION CONTROL DEVICES.

STAGE 2:

1. INSTALL STORM DRAIN INLET PROTECTION OR INLET FILTERS (IN PAVED AREAS) AT DRAINAGE ITEMS AS THEY ARE CONSTRUCTED IN STAGE 2. THE STORM DRAIN INLET PROTECTION OR INLET FILTERS (IN PAVED AREAS) SHALL BE INITIATED IMMEDIATELY UPON COMPLETION OR CESSATION OF DISTURBANCE FOR 14 DAYS, AND THE INSTALLATION SHALL BE COMPLETED BY THE 14TH DAY AFTER NO DISTURBANCE.
2. PLACE TEMPORARY SEEDING IN EXPOSED AREAS THAT ARE TO REMAIN EXPOSED. THE TEMPORARY SEEDING SHALL BE INITIATED IMMEDIATELY UPON COMPLETION OR CESSATION OF DISTURBANCE FOR 14 DAYS, AND THE INSTALLATION SHALL BE COMPLETED BY THE 14TH DAY AFTER NO DISTURBANCE.
3. INSTALL TEMPORARY DITCH CHECKS. TEMPORARY DITCH CHECKS SHALL BE INITIATED IMMEDIATELY UPON COMPLETION OR CESSATION OF DISTURBANCE FOR 14 DAYS, AND THE INSTALLATION SHALL BE COMPLETED BY THE 14TH DAY AFTER NO DISTURBANCE.
4. EROSION CONTROL BLANKET SHALL BE USED IN AREAS OF CONCENTRATED FLOW, AND TEMPORARY MULCH SHALL BE USED IN AREAS OF SHEET FLOW.

SOIL EROSION AND SEDIMENT CONTROL CONSTRUCTION SEQUENCE (CONT'D)

5. INSTALL FINAL SEEDING/PLANTINGS ON FINAL GRADED EARTH. IF FINAL SEEDING/PLANTINGS ON FINAL GRADED EARTH CANNOT BE INSTALLED THEN PLACE TEMPORARY SEEDING AND EROSION CONTROL BLANKET. THE SEEDING AND/OR PLANTINGS SHALL BE INITIATED IMMEDIATELY UPON COMPLETION OR CESSATION OF DISTURBANCE FOR 14 DAYS, AND THE INSTALLATION SHALL BE COMPLETED BY THE 14TH DAY AFTER NO DISTURBANCE. THE CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS OF THE STORM WATER POLLUTION PREVENTION PLAN SECTION II.B.
6. PERFORM ONGOING MAINTENANCE OF ALL EROSION CONTROL DEVICES.
7. EROSION CONTROL BLANKET SHALL BE USED IN AREAS OF CONCENTRATED FLOW, AND TEMPORARY MULCH SHALL BE USED IN AREAS OF SHEET FLOW.

STAGE 3:

1. INSTALL STORM DRAIN INLET PROTECTION OR INLET FILTERS (IN PAVED AREAS) AT DRAINAGE ITEMS AS THEY ARE CONSTRUCTED IN STAGE 3. THE STORM DRAIN INLET PROTECTION OR INLET FILTERS (IN PAVED AREAS) SHALL BE INITIATED IMMEDIATELY UPON COMPLETION OR CESSATION OF DISTURBANCE FOR 14 DAYS, AND THE INSTALLATION SHALL BE COMPLETED BY THE 14TH DAY AFTER NO DISTURBANCE.
2. PLACE TEMPORARY SEEDING IN EXPOSED AREAS THAT ARE TO REMAIN EXPOSED. THE TEMPORARY SEEDING SHALL BE INITIATED IMMEDIATELY UPON COMPLETION OR CESSATION OF DISTURBANCE FOR 14 DAYS, AND THE INSTALLATION SHALL BE COMPLETED BY THE 14TH DAY AFTER NO DISTURBANCE.
3. INSTALL TEMPORARY DITCH CHECKS. TEMPORARY DITCH CHECKS SHALL BE INITIATED IMMEDIATELY UPON COMPLETION OR CESSATION OF DISTURBANCE FOR 14 DAYS, AND THE INSTALLATION SHALL BE COMPLETED BY THE 14TH DAY AFTER NO DISTURBANCE.
4. EROSION CONTROL BLANKET SHALL BE USED IN AREAS OF CONCENTRATED FLOW, AND TEMPORARY MULCH SHALL BE USED IN AREAS OF SHEET FLOW.
5. INSTALL FINAL SEEDING/PLANTINGS ON FINAL GRADED EARTH. IF FINAL SEEDING/PLANTINGS ON FINAL GRADED EARTH CANNOT BE INSTALLED THEN PLACE TEMPORARY SEEDING AND EROSION CONTROL BLANKET. THE SEEDING AND/OR PLANTINGS SHALL BE INITIATED IMMEDIATELY UPON COMPLETION OR CESSATION OF DISTURBANCE FOR 14 DAYS, AND THE INSTALLATION SHALL BE COMPLETED BY THE 14TH DAY AFTER NO DISTURBANCE. THE CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS OF THE STORM WATER POLLUTION PREVENTION PLAN SECTION II.B.
6. PERFORM ONGOING MAINTENANCE OF ALL EROSION CONTROL DEVICES.
7. EROSION CONTROL BLANKET SHALL BE USED IN AREAS OF CONCENTRATED FLOW, AND TEMPORARY MULCH SHALL BE USED IN AREAS OF SHEET FLOW.

STAGE 4:

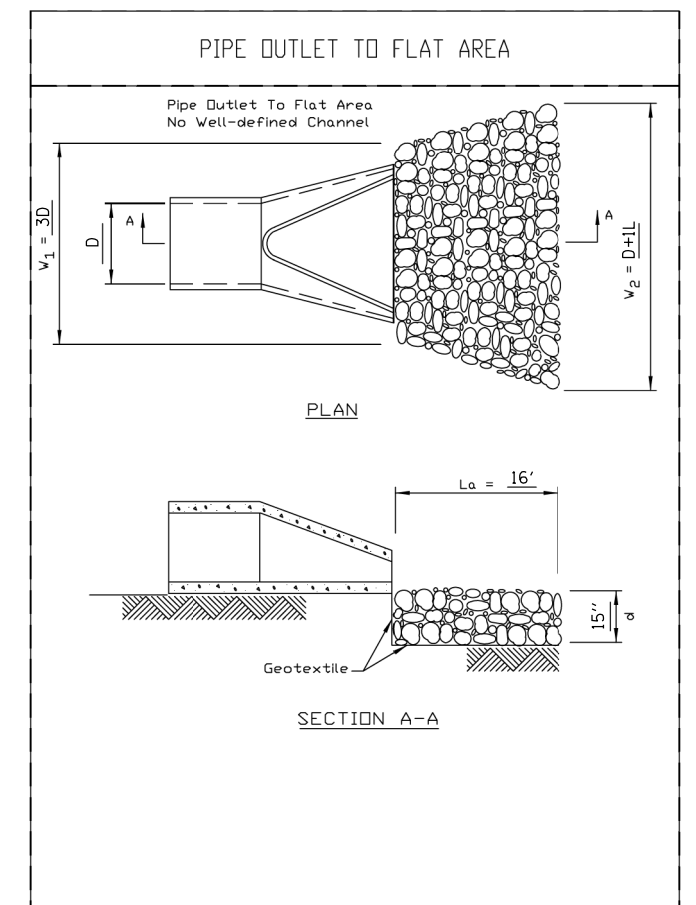
1. INSTALL STORM DRAIN INLET PROTECTION OR INLET FILTERS (IN PAVED AREAS) AT DRAINAGE ITEMS AS THEY ARE CONSTRUCTED IN STAGE 4. THE STORM DRAIN INLET PROTECTION OR INLET FILTERS (IN PAVED AREAS) SHALL BE INITIATED IMMEDIATELY UPON COMPLETION OR CESSATION OF DISTURBANCE FOR 14 DAYS, AND THE INSTALLATION SHALL BE COMPLETED BY THE 14TH DAY AFTER NO DISTURBANCE.
2. PLACE TEMPORARY SEEDING IN EXPOSED AREAS THAT ARE TO REMAIN EXPOSED. THE TEMPORARY SEEDING SHALL BE INITIATED IMMEDIATELY UPON COMPLETION OR CESSATION OF DISTURBANCE FOR 14 DAYS, AND THE INSTALLATION SHALL BE COMPLETED BY THE 14TH DAY AFTER NO DISTURBANCE.
3. INSTALL TEMPORARY DITCH CHECKS. TEMPORARY DITCH CHECKS SHALL BE INITIATED IMMEDIATELY UPON COMPLETION OR CESSATION OF DISTURBANCE FOR 14 DAYS, AND THE INSTALLATION SHALL BE COMPLETED BY THE 14TH DAY AFTER NO DISTURBANCE.

SOIL EROSION AND SEDIMENT CONTROL CONSTRUCTION SEQUENCE (CONT'D)

4. EROSION CONTROL BLANKET SHALL BE USED IN AREAS OF CONCENTRATED FLOW, AND TEMPORARY MULCH SHALL BE USED IN AREAS OF SHEET FLOW.
5. INSTALL FINAL SEEDING/PLANTINGS ON FINAL GRADED EARTH. IF FINAL SEEDING/PLANTINGS ON FINAL GRADED EARTH CANNOT BE INSTALLED THEN PLACE TEMPORARY SEEDING AND EROSION CONTROL BLANKET. THE SEEDING AND/OR PLANTINGS SHALL BE INITIATED IMMEDIATELY UPON COMPLETION OR CESSATION OF DISTURBANCE FOR 14 DAYS, AND THE INSTALLATION SHALL BE COMPLETED BY THE 14TH DAY AFTER NO DISTURBANCE. THE CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS OF THE STORM WATER POLLUTION PREVENTION PLAN SECTION II.B.
6. PERFORM ONGOING MAINTENANCE OF ALL EROSION CONTROL DEVICES.
7. EROSION CONTROL BLANKET SHALL BE USED IN AREAS OF CONCENTRATED FLOW, AND TEMPORARY MULCH SHALL BE USED IN AREAS OF SHEET FLOW.

FINAL STAGE CONSTRUCTION:

1. PERFORM ONGOING MAINTENANCE OF EROSION CONTROL DEVICES.
2. AFTER FINAL SEEDING/PLANTINGS HAVE ATTAINED A 70% ESTABLISHMENT, REMOVE EROSION CONTROL DEVICES.
3. PERFORM RESTORATION OF AREAS DISTURBED FROM THE REMOVAL OF EROSION CONTROL DEVICES.



COMPANY NAME: #COMPANY NAME#  
 PROJECT CONTACT: #PROJECT CONTACT#  
 DATE PLOTTED: 3/29/2018 9:16:15 AM  
 FILE NAME: D:\6701\ent\eros-gen-01.dgn  
 PLOT DRIVER: ILpdf.plt  
 PEN TABLE: plot.tbl

**HRGreen**  
 HRGreen.com  
 Illinois Professional Design Firm  
 #184-001322

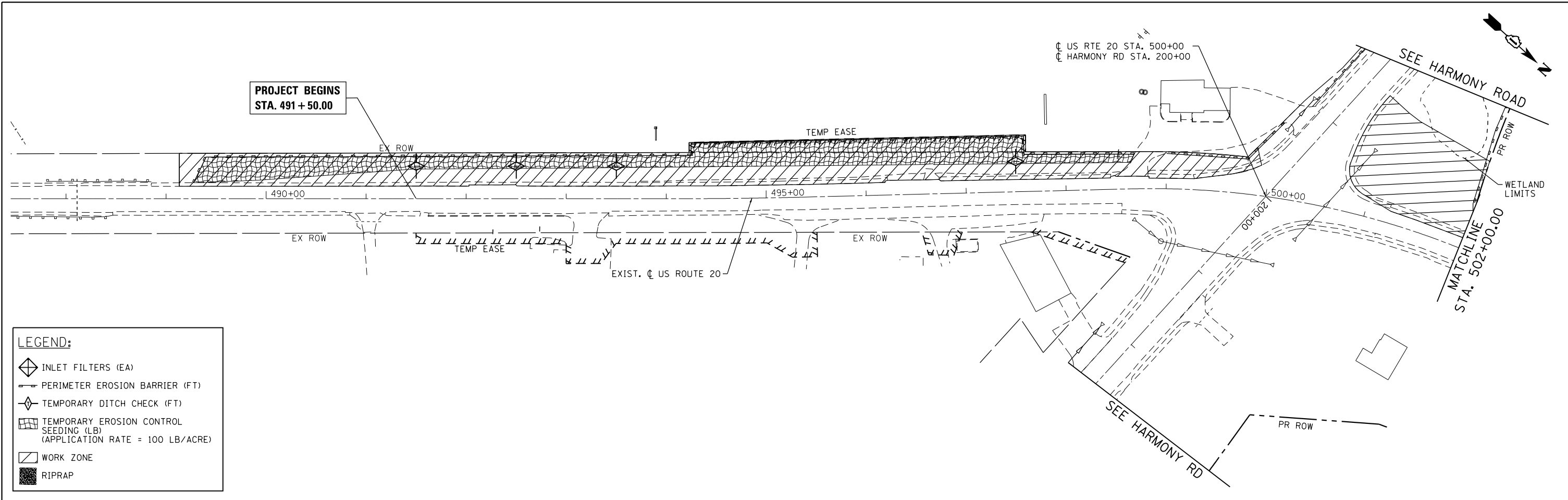
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|---|----------------|-----------|
| USER NAME = bhartha                     | DESIGNED - BH  | REVISED - |
| FILE NAME = D:\6701\ent\eros-gen-01.dgn | DRAWN - DMS    | REVISED - |
| PLOT SCALE = NTS                        | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                   | DATE - 3/29/18 | REVISED - |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20 AT HARMONY ROAD  
 EROSION CONTROL GENERAL NOTES**

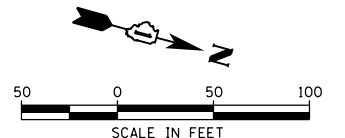
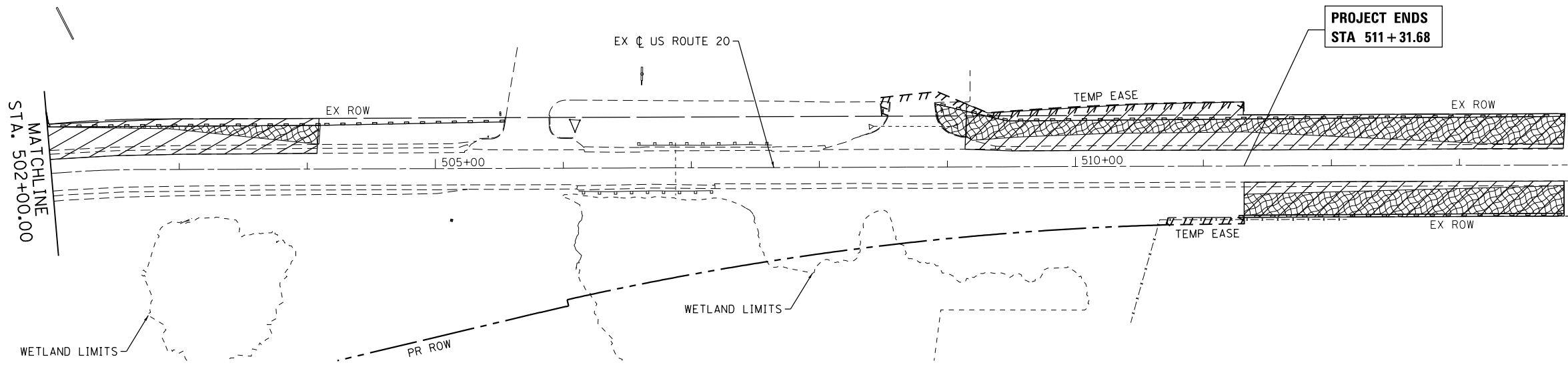
SCALE: NTS SHEET NO. 1 OF 11 SHEETS STA. TO STA.

|   |         |         |              |           |
|---|---------|---------|--------------|-----------|
| F.A.P. RTE.                                   | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
| 525   | 11-N    | MCHENRY | 135          | 45        |
| CONTRACT NO. 60101                            |         |         |              |           |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |         |         |              |           |



**LEGEND:**

- INLET FILTERS (EA)
- PERIMETER EROSION BARRIER (FT)
- TEMPORARY DITCH CHECK (FT)
- TEMPORARY EROSION CONTROL SEEDING (LB)  
(APPLICATION RATE = 100 LB/ACRE)
- WORK ZONE
- RIPRAP



COMPANY NAME: #COMPANY NAME#  
 PROJECT CONTACT: #PROJECT CONTACT#  
 DATE PLOTTED: 3/29/2018 9:16:29 AM  
 FILE NAME: D:\60101\sh-t-eros-stage1-01.dgn  
 PLOT DRIVER: ILpdf.plt  
 PEN TABLE: plotlabel.tbl

HRGreen.com  
 Illinois Professional Design Firm  
 #184-001322

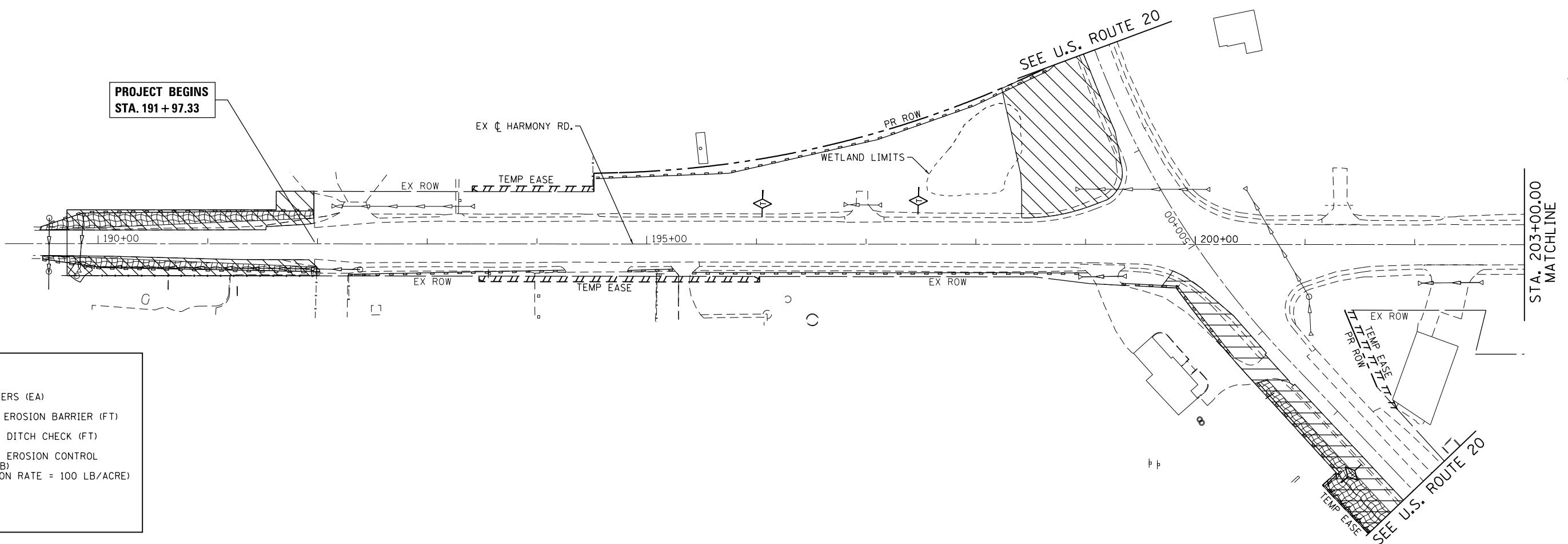
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|--|----------------|-----------|
| USER NAME = bhartma                          | DESIGNED - BH  | REVISED - |
| FILE NAME = D:\60101\sh-t-eros-stage1-01.dgn | DRAWN - DMS    | REVISED - |
| PLOT SCALE = 1" = 50'                        | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                        | DATE - 3/29/18 | REVISED - |

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20**  
**EROSION CONTROL PLAN - PRE-STAGE**

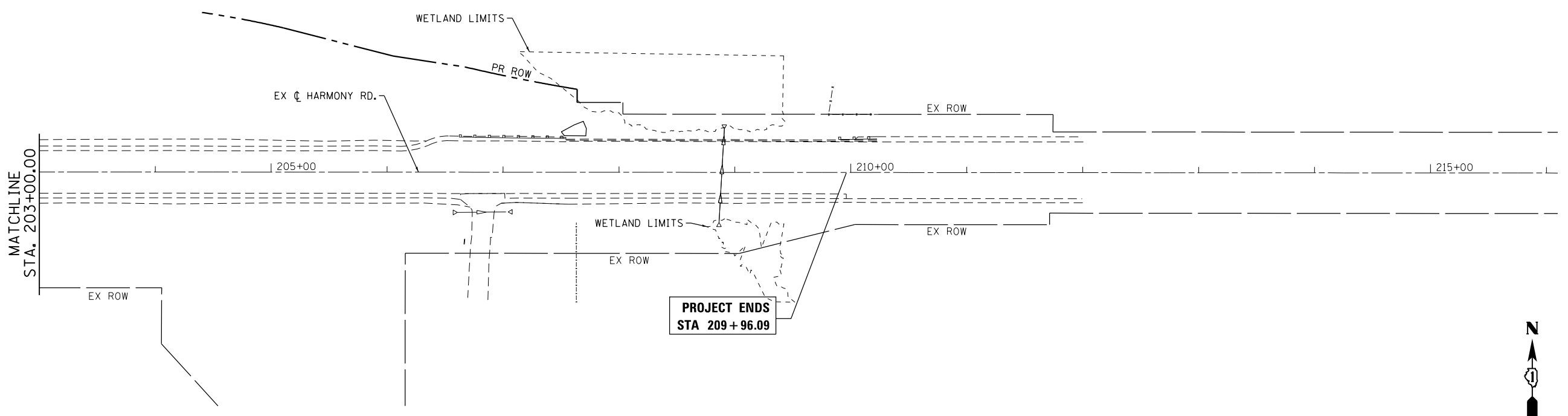
|   |              |                |                  |              |
|---|--------------|----------------|------------------|--------------|
| F.A.P. RTE. 525                               | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135 | SHEET NO. 46 |
| CONTRACT NO. 60T01                            |              |                |                  |              |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |              |                |                  |              |

SCALE: 1" = 50'    SHEET NO. 2 OF 11 SHEETS    STA.                      TO STA.



**LEGEND:**

- INLET FILTERS (EA)
- PERIMETER EROSION BARRIER (FT)
- TEMPORARY DITCH CHECK (FT)
- TEMPORARY EROSION CONTROL SEEDING (LB) (APPLICATION RATE = 100 LB/ACRE)
- WORK ZONE
- RIPRAP



COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: bhartma  
 DATE PLOTTED: 3/29/2018 9:16:36 AM  
 FILE NAME: D:\60T01\sh-eros-stage1-02.dgn  
 PLOT DRIVER: ILpdf.plt  
 PEN TABLE: plot.tbl

HRGreen.com  
 Illinois Professional Design Firm  
 #184-001322

|  |                |           |
|--|----------------|-----------|
| USER NAME = bhartma                        | DESIGNED - BH  | REVISED - |
| FILE NAME = D:\60T01\sh-eros-stage1-02.dgn | DRAWN - DMS    | REVISED - |
| PLOT SCALE = 1" = 50'                      | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                      | DATE - 3/29/18 | REVISED - |

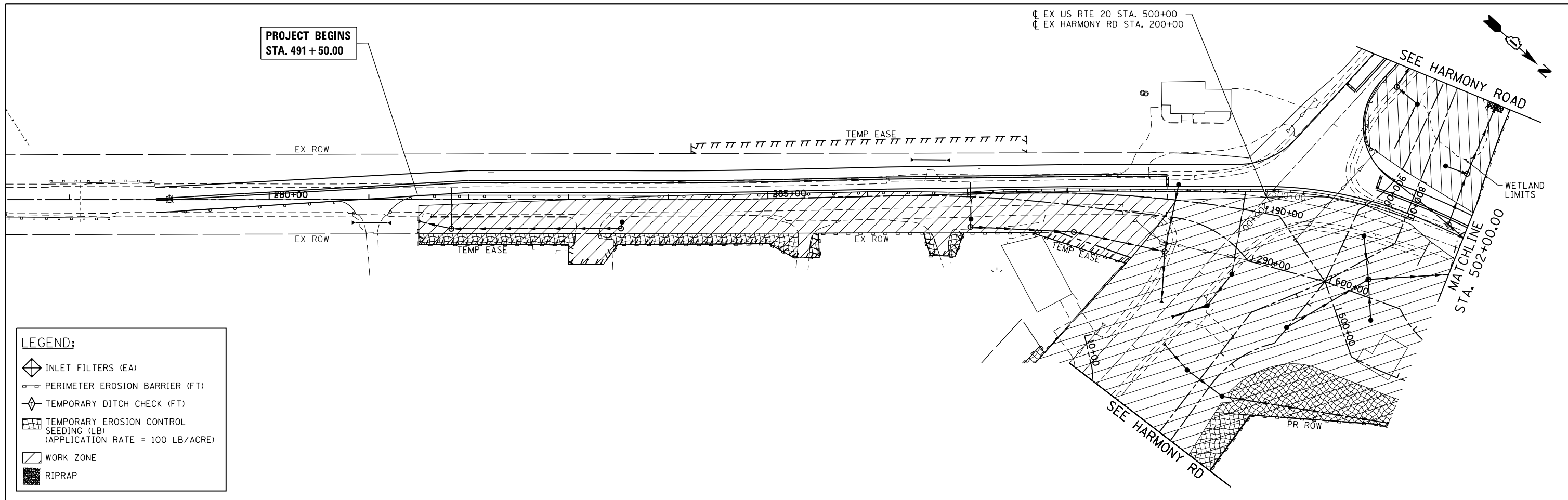
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**HARMONY ROAD**  
**EROSION CONTROL PLAN - PRE-STAGE**

SCALE: 1" = 50'    SHEET NO. 3 OF 11 SHEETS    STA.    TO STA.

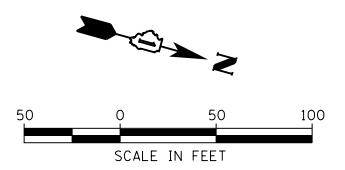
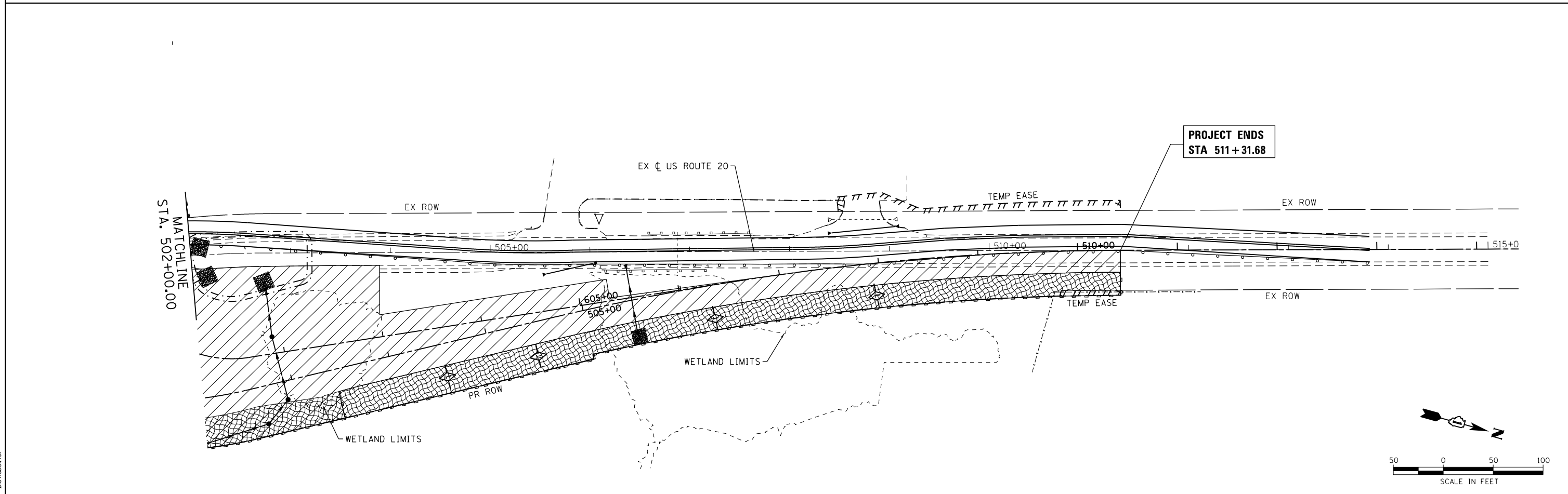
| F.A.P. RTE.                                      | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
|--|---------|---------|--------------|-----------|
| 525  | 11-N    | MCHENRY | 135          | 47        |
| CONTRACT NO. 60T01                               |         |         |              |           |
| FED. ROAD DIST. NO.    ILLINOIS FED. AID PROJECT |         |         |              |           |





**LEGEND:**

- INLET FILTERS (EA)
- PERIMETER EROSION BARRIER (FT)
- TEMPORARY DITCH CHECK (FT)
- TEMPORARY EROSION CONTROL SEEDING (LB)  
(APPLICATION RATE = 100 LB/ACRE)
- WORK ZONE
- RIPRAP



COMPANY NAME: HRC  
 PROJECT CONTACT: HRC  
 DATE PLOTTED: 3/29/2018 9:16:42 AM  
 FILE NAME: D:\60101\sh-eros-stage2-01.dgn  
 PLOT DRIVER: ILpdf.plt  
 PEN TABLE: plot.tbl

HRGreen.com  
 Illinois Professional Design Firm  
 #184-001322

|  |                |           |
|--|----------------|-----------|
| USER NAME = bhartma                        | DESIGNED - BH  | REVISED - |
| FILE NAME = D:\60101\sh-eros-stage2-01.dgn | DRAWN - DMS    | REVISED - |
| PLOT SCALE = 1" = 50'                      | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                      | DATE - 3/29/18 | REVISED - |

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

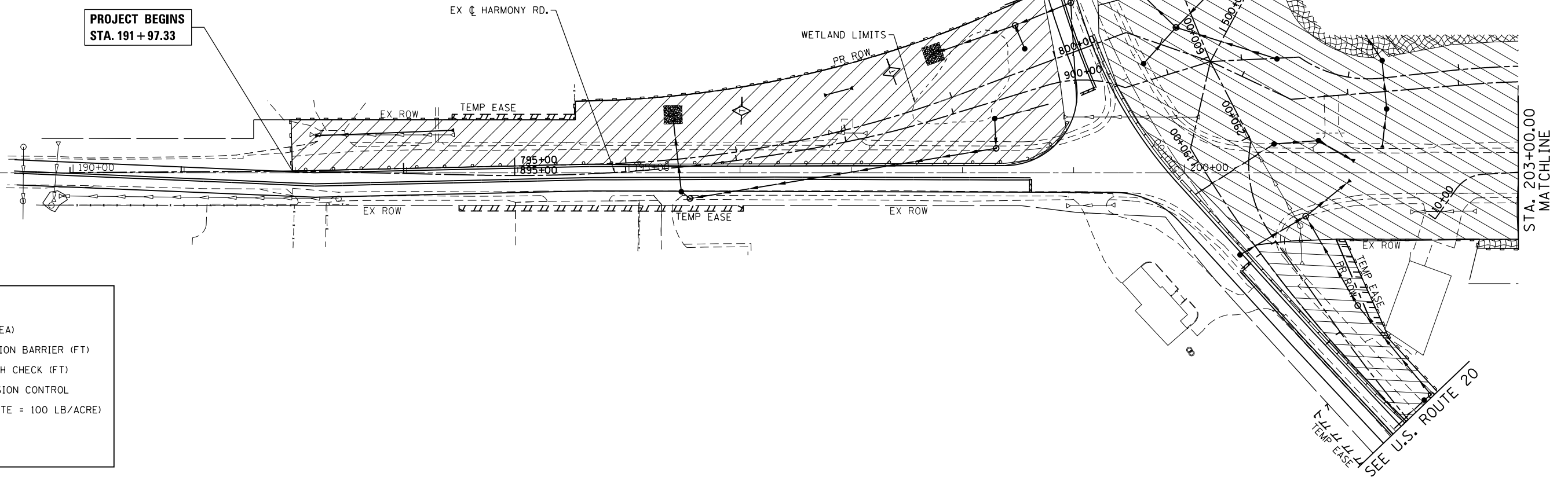
**US ROUTE 20**  
**EROSION CONTROL PLAN - STAGE 1**

SCALE: 1" = 50'    SHEET NO. 4 OF 11 SHEETS    STA.    TO STA.

|                    |              |                |                           |              |
|--------------------|--------------|----------------|---------------------------|--------------|
| F.A.P. RTE. 525    | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135          | SHEET NO. 48 |
| CONTRACT NO. 60T01 |              |                | ILLINOIS FED. AID PROJECT |              |

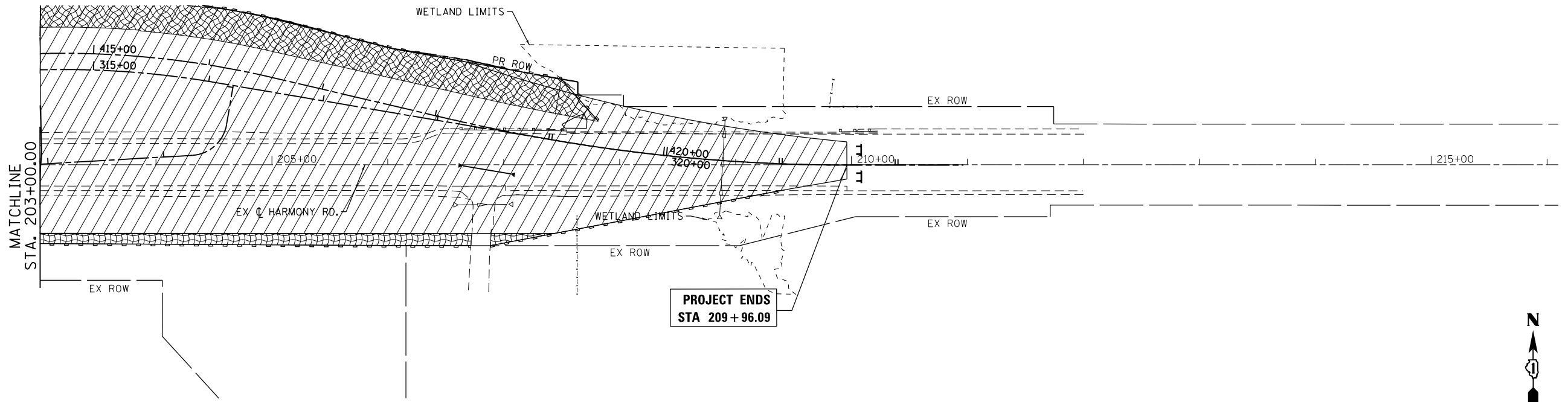


PROJECT BEGINS  
STA. 191 + 97.33



**LEGEND:**

- INLET FILTERS (EA)
- PERIMETER EROSION BARRIER (FT)
- TEMPORARY DITCH CHECK (FT)
- TEMPORARY EROSION CONTROL SEEDING (LB)  
(APPLICATION RATE = 100 LB/ACRE)
- WORK ZONE
- RIPRAP



PROJECT ENDS  
STA 209 + 96.09



COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: bhartma  
 DATE PLOTTED: 3/29/2018 9:16:48 AM  
 FILE NAME: D:\60701\sh1-eros-stage2-02.dgn  
 PLOT DRIVER: ILpdf.plt  
 PEN TABLE: plot.tbl



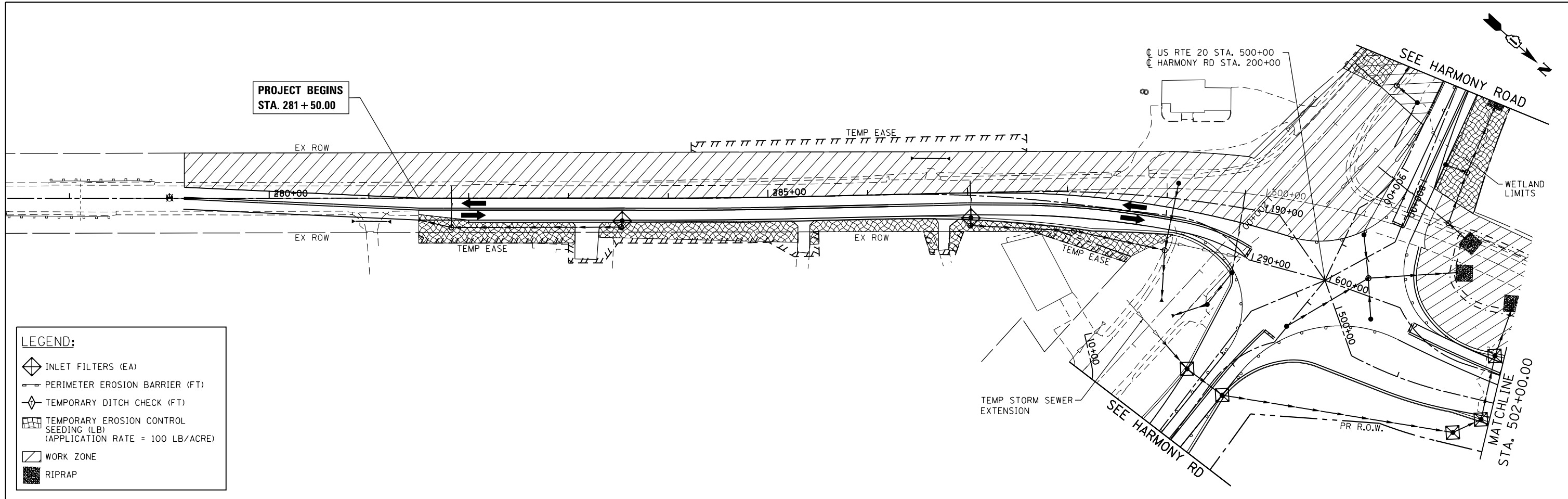
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|---|----------------|-----------|
| USER NAME = bhartma                         | DESIGNED - BH  | REVISED - |
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| PLOT SCALE = 1" = 50'                       | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                       | DATE - 3/29/18 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**







**HARMONY ROAD  
EROSION CONTROL PLAN - STAGE 1**

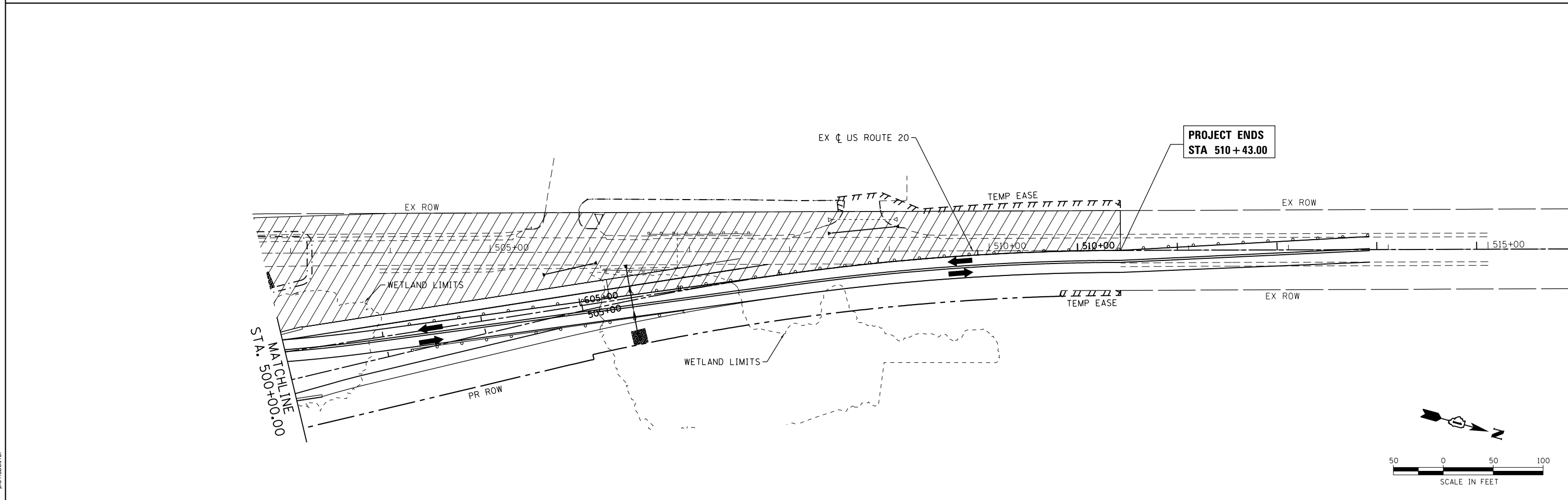
SCALE: 1" = 50' SHEET NO. 5 OF 11 SHEETS STA. TO STA.

|   |              |                |                  |              |
|---|--------------|----------------|------------------|--------------|
| F.A.P. RTE. 525                               | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135 | SHEET NO. 49 |
| CONTRACT NO. 60T01                            |              |                |                  |              |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |              |                |                  |              |



**LEGEND:**

-  INLET FILTERS (EA)
-  PERIMETER EROSION BARRIER (FT)
-  TEMPORARY DITCH CHECK (FT)
-  TEMPORARY EROSION CONTROL SEEDING (LB)  
(APPLICATION RATE = 100 LB/ACRE)
-  WORK ZONE
-  RIPRAP



COMPANY NAME: #COMPANY NAME#  
 PROJECT CONTACT: #PROJECT CONTACT#  
 DATE PLOTTED: 3/29/2018 9:16:57 AM  
 FILE NAME: D:\60101\ent\eros-stage3-01.dgn  
 PLOT DRIVER: IL\pdf\dwg\plottf9  
 PEN TABLE: plottab01.tbl



|   |                |           |
|---|----------------|-----------|
| USER NAME = bhartha                         | DESIGNED - BH  | REVISED - |
| FILE NAME = D:\60101\ent\eros-stage3-01.dgn | DRAWN - DMS    | REVISED - |
| PLOT SCALE = 1" = 50'                       | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                       | DATE - 3/29/18 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

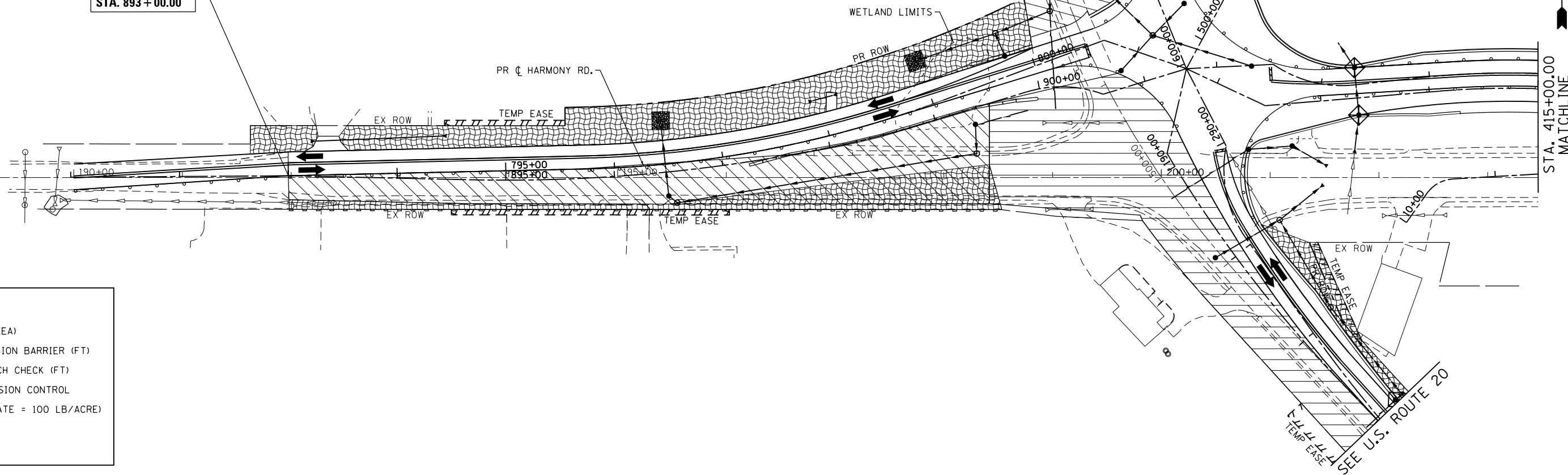
**US ROUTE 20  
EROSION CONTROL PLAN - STAGE 2**

SCALE: 1" = 50'    SHEET NO. 6 OF 11 SHEETS    STA.    TO STA.

| F.A.P. RTE.                                      | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
|--|---------|---------|--------------|-----------|
| 525  | 11-N    | MCHENRY | 135          | 50        |
| CONTRACT NO. 60T01                               |         |         |              |           |
| FED. ROAD DIST. NO.    ILLINOIS FED. AID PROJECT |         |         |              |           |

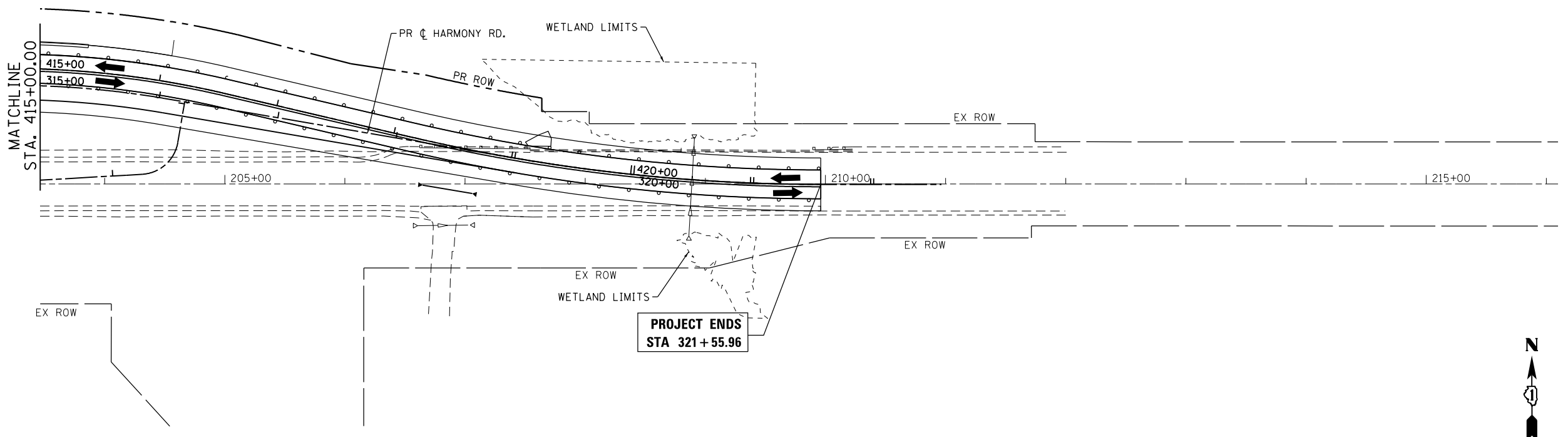
PROJECT BEGINS  
STA. 893 + 00.00

SEE U.S. ROUTE 20



**LEGEND:**

- INLET FILTERS (EA)
- PERIMETER EROSION BARRIER (FT)
- TEMPORARY DITCH CHECK (FT)
- TEMPORARY EROSION CONTROL SEEDING (LB)  
(APPLICATION RATE = 100 LB/ACRE)
- WORK ZONE
- RIPRAP



COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: bhartma  
 DATE PLOTTED: 3/29/2018 9:17:04 AM  
 FILE NAME: D:\60701\sh-eros-stage3-02.dgn  
 PLOT DRIVER: ILpdf.plt  
 PEN TABLE: plot.tbl

HRGreen.com  
Illinois Professional Design Firm  
#184-001322

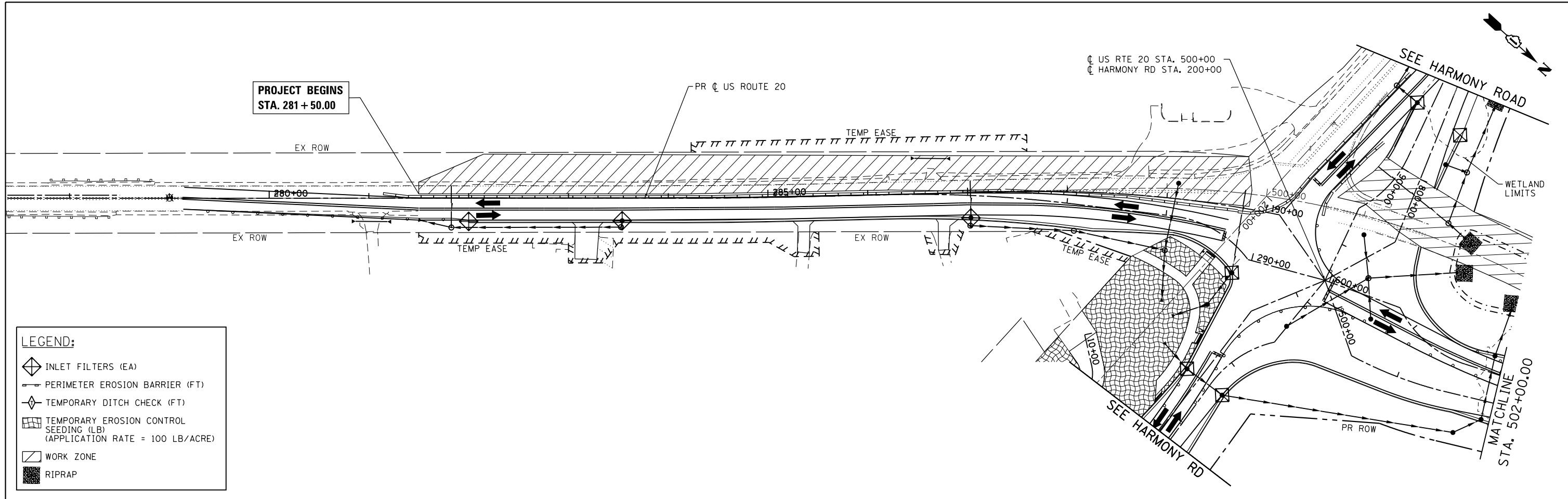
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|--|----------------|-----------|
| USER NAME = bhartma                        | DESIGNED - BH  | REVISED - |
| FILE NAME = D:\60701\sh-eros-stage3-02.dgn | DRAWN - DMS    | REVISED - |
| PLOT SCALE = 1" = 50'                      | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                      | DATE - 3/29/18 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**HARMONY ROAD  
EROSION CONTROL PLAN - STAGE 2**

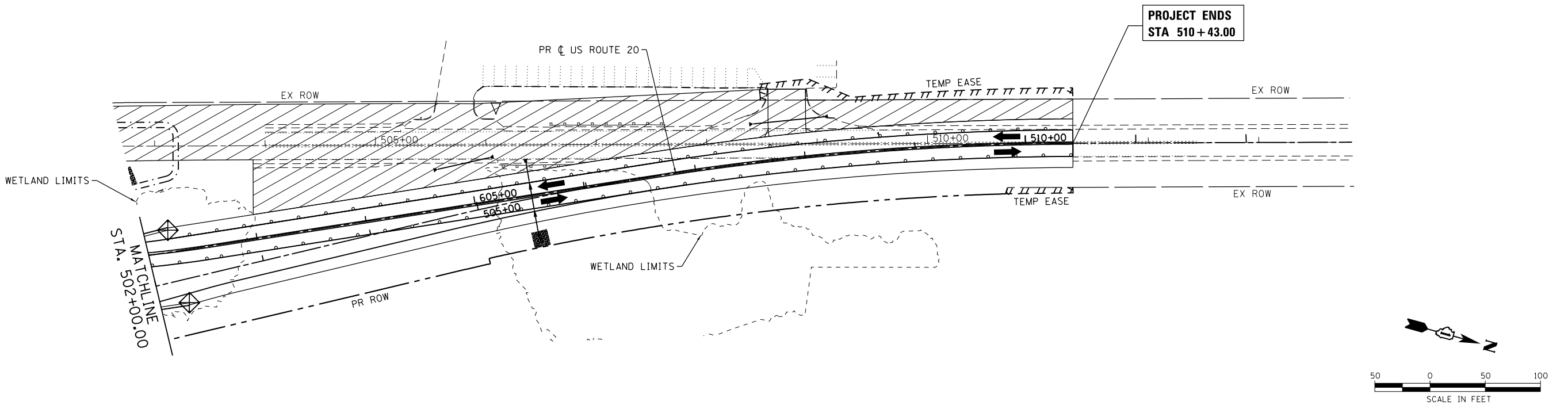
SCALE: 1" = 50'    SHEET NO. 7 OF 11 SHEETS    STA.    TO STA.

|  |              |                |                  |              |
|--|--------------|----------------|------------------|--------------|
| F.A.P. RTE. 525                                  | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135 | SHEET NO. 51 |
| CONTRACT NO. 60T01                               |              |                |                  |              |
| FED. ROAD DIST. NO.    ILLINOIS FED. AID PROJECT |              |                |                  |              |



**LEGEND:**

- INLET FILTERS (EA)
- PERIMETER EROSION BARRIER (FT)
- TEMPORARY DITCH CHECK (FT)
- TEMPORARY EROSION CONTROL SEEDING (LB)  
(APPLICATION RATE = 100 LB/ACRE)
- WORK ZONE
- RIPRAP



COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: bhartma  
 DATE PLOTTED: 3/29/2018 9:12:12 AM  
 FILE NAME: D:\60101\sh-eros-stage4-01.dgn  
 PLOT DRIVER: ILpdf.plt  
 PEN TABLE: plot.tbl



|  |                |           |
|--|----------------|-----------|
| USER NAME = bhartma                        | DESIGNED - BH  | REVISED - |
| FILE NAME = D:\60101\sh-eros-stage4-01.dgn | DRAWN - DMS    | REVISED - |
| PLOT SCALE = 1" = 50'                      | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                      | DATE - 3/29/18 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

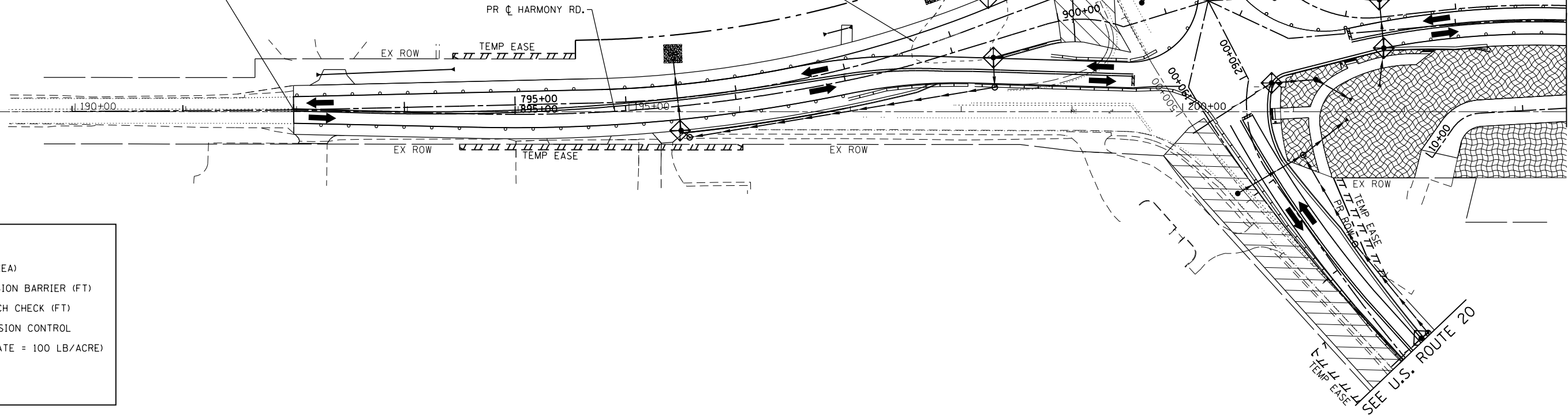
|   |                          |
|---|--------------------------|
| <b>US ROUTE 20<br/>EROSION CONTROL PLAN - STAGE 3</b> |                          |
| SCALE: 1" = 50'                                       | SHEET NO. 8 OF 11 SHEETS |
| STA.  | TO STA.                  |

|   |              |                |                  |              |
|---|--------------|----------------|------------------|--------------|
| F.A.P. RTE. 525                               | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135 | SHEET NO. 52 |
| CONTRACT NO. 60T01                            |              |                |                  |              |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |              |                |                  |              |

PROJECT BEGINS  
STA. 893 + 00.00

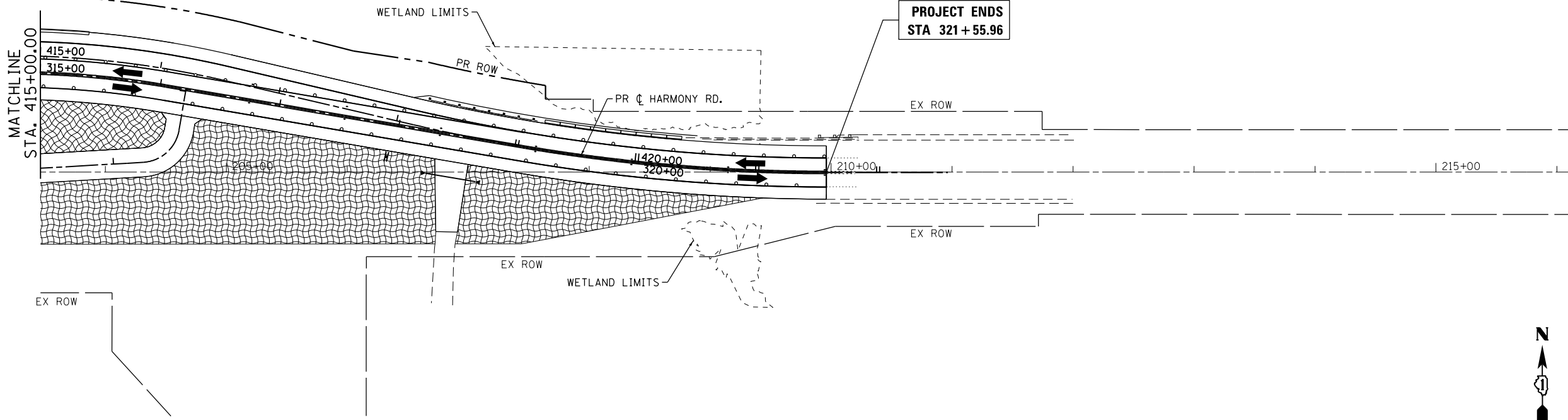
US RTE 20 STA. 499+69.50  
HARMONY RD STA. 901+39.70

SEE U.S. ROUTE 20



**LEGEND:**

- INLET FILTERS (EA)
- PERIMETER EROSION BARRIER (FT)
- TEMPORARY DITCH CHECK (FT)
- TEMPORARY EROSION CONTROL SEEDING (LB)  
(APPLICATION RATE = 100 LB/ACRE)
- WORK ZONE
- RIPRAP



PROJECT ENDS  
STA 321 + 55.96



COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: bhartma  
 DATE PLOTTED: 3/29/2018 9:17:17 AM  
 FILE NAME: D:\60101\sh-eros-stage4-02.dgn  
 PLOT DRIVER: ILpdf.plt  
 PEN TABLE: plot.tbl



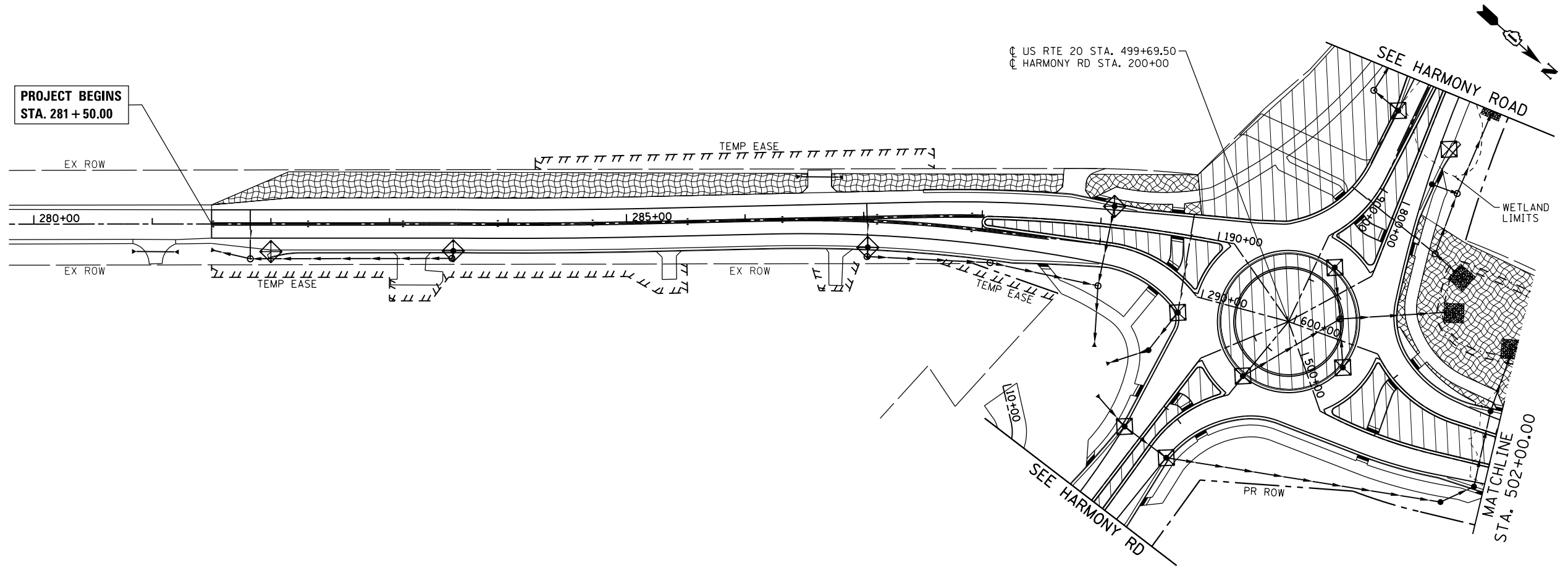
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|--|----------------|-----------|
| USER NAME = bhartma                        | DESIGNED - BH  | REVISED - |
| FILE NAME = D:\60101\sh-eros-stage4-02.dgn | DRAWN - DMS    | REVISED - |
| PLOT SCALE = 1" = 50'                      | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                      | DATE - 3/29/18 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**HARMONY ROAD  
EROSION CONTROL PLAN - STAGE 3**

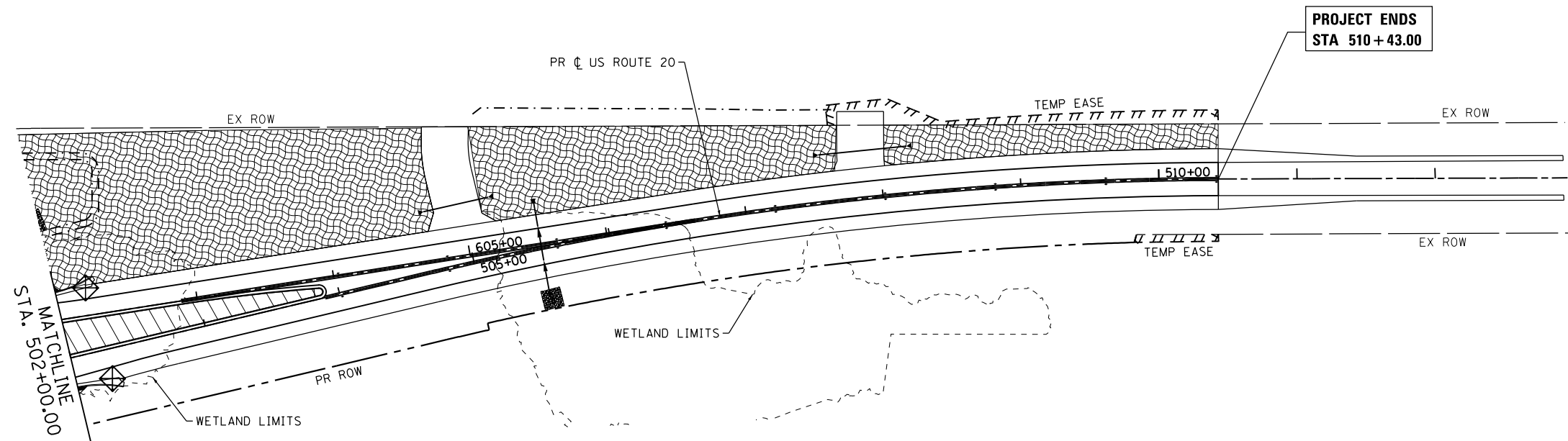
SCALE: 1" = 50' SHEET NO. 9 OF 11 SHEETS STA. TO STA.

| F.A.P. RTE.                                   | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---|---------|---------|--------------|-----------|
| 525   | 11-N    | MCHENRY | 135          | 53        |
| CONTRACT NO. 60T01                            |         |         |              |           |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |         |         |              |           |



**LEGEND:**

- INLET FILTERS (EA)
- PERIMETER EROSION BARRIER (FT)
- TEMPORARY DITCH CHECK (FT)
- TEMPORARY EROSION CONTROL SEEDING (LB)  
(APPLICATION RATE = 100 LB/ACRE)
- WORK ZONE
- RIPRAP



COMPANY NAME: #COMPANY NAME#  
 PROJECT CONTACT: #PROJECT CONTACT#  
 DATE PLOTTED: 3/29/2018 9:17:23 AM  
 FILE NAME: D:\60701\sh+eros-stage5a-01.dgn  
 PLOT DRIVER: ILpdf.plt  
 PEN TABLE: plottbl.tbl



|   |                |           |
|---|----------------|-----------|
| USER NAME = bhartha                         | DESIGNED - BH  | REVISED - |
| FILE NAME = D:\60701\sh+eros-stage5a-01.dgn | DRAWN - DMS    | REVISED - |
| PLOT SCALE = 1" = 50'                       | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                       | DATE - 3/29/18 | REVISED - |

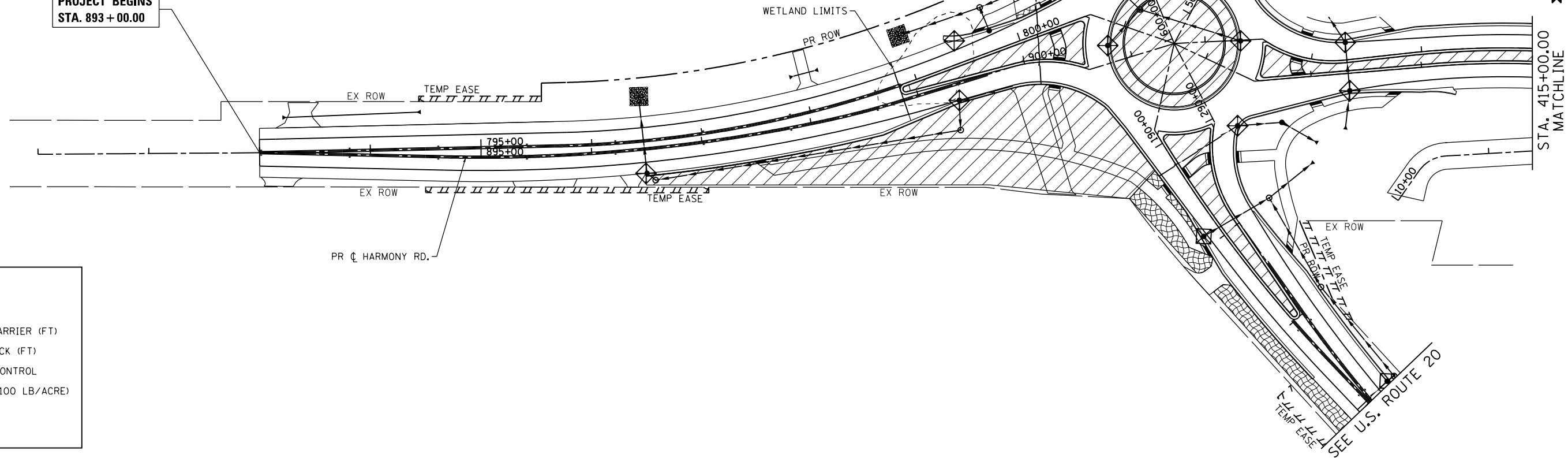
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

|   |                           |
|---|---------------------------|
| <b>US ROUTE 20<br/>EROSION CONTROL PLAN - STAGE 4</b> |                           |
| SCALE: 1" = 50'                                       | SHEET NO. 10 OF 11 SHEETS |
| STA.  | TO STA.                   |

|   |              |                |                  |              |
|---|--------------|----------------|------------------|--------------|
| F.A.P. RTE. 525                               | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135 | SHEET NO. 54 |
| CONTRACT NO. 60T01                            |              |                |                  |              |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |              |                |                  |              |

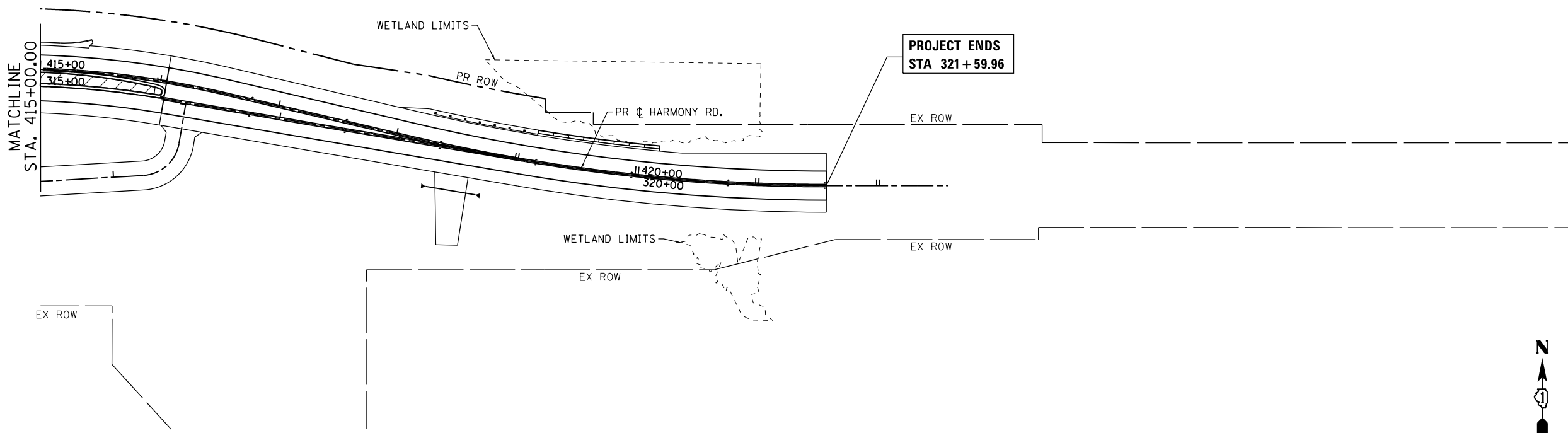
PROJECT BEGINS  
STA. 893 + 00.00

SEE U.S. ROUTE 20



**LEGEND:**

- INLET FILTERS (EA)
- PERIMETER EROSION BARRIER (FT)
- TEMPORARY DITCH CHECK (FT)
- TEMPORARY EROSION CONTROL SEEDING (LB)  
(APPLICATION RATE = 100 LB/ACRE)
- WORK ZONE
- RIPRAP



PROJECT ENDS  
STA 321 + 59.96



COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: bhartma  
 DATE PLOTTED: 3/29/2018 9:17:29 AM  
 FILE NAME: D:\60101\sh-eros-stage5a-02.dwg  
 PLOT DRIVER: IL:\pdf\pwintrfcq  
 PEN TABLE: plotabel.tbl



|   |                |           |
|---|----------------|-----------|
| USER NAME = bhartma                         | DESIGNED - BH  | REVISED - |
| FILE NAME = D:\60101\sh-eros-stage5a-02.dwg | DRAWN - DMS    | REVISED - |
| PLOT SCALE = 1" = 50'                       | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                       | DATE - 3/29/18 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**HARMONY ROAD  
EROSION CONTROL PLAN - STAGE 4**

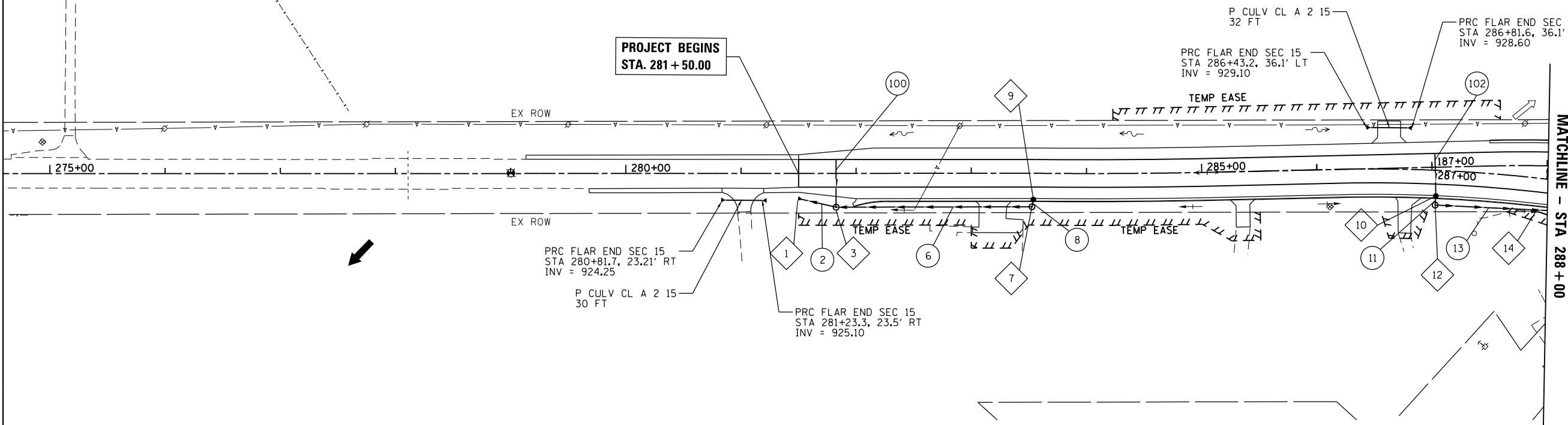
SCALE: 1" = 50' SHEET NO. 11 OF 11 SHEETS STA. TO STA.

| F.A.P. RTE.                                   | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---|---------|---------|--------------|-----------|
| 525   | 11-N    | MCHENRY | 135          | 55        |
| CONTRACT NO. 60T01                            |         |         |              |           |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |         |         |              |           |

|      |          |    |      |
|------|----------|----|------|
| PLAN | SURVEYED | BY | DATE |
|      | PLOTTED  |    |      |
|      | ALIGNED  |    |      |
|      | CHECKED  |    |      |
|      | FILED    |    |      |
|      | NO.      |    |      |

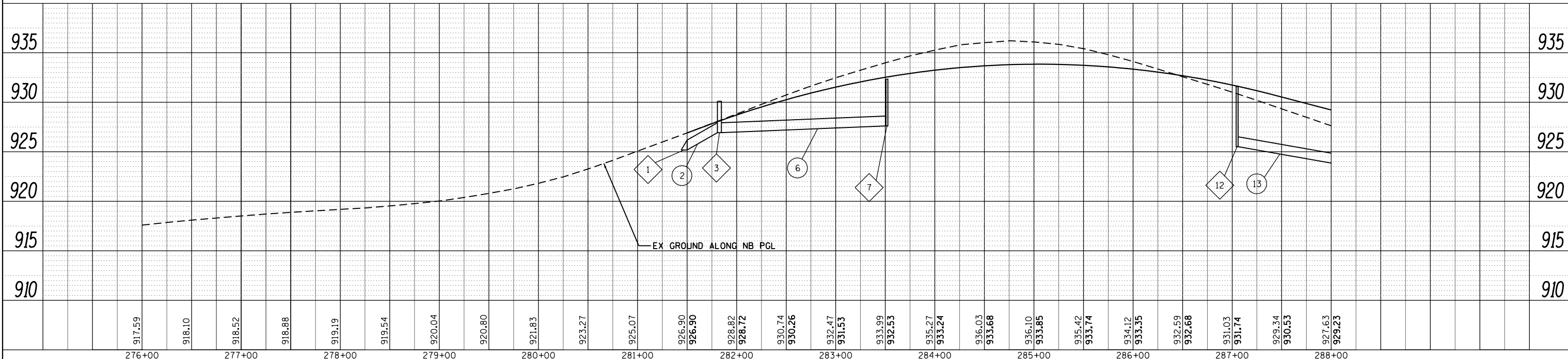
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|---------|-----------|----|------|
| PROFILE | SURVEYED  | BY | DATE |
|         | PLOTTED   |    |      |
|         | GRADES    |    |      |
|         | CHECKED   |    |      |
|         | STRUCTURE |    |      |
|         | NOTATIONS |    |      |
|         | CHKD      |    |      |
|         | NO.       |    |      |

COMPANY NAME: HRGreen  
 PROJECT CONTACT: bharto  
 CLIENT: MCHENRY COUNTY  
 DATE PLOTTED: 3/29/2018 9:17:38 AM  
 FILE NAME: D:\60101-sht-drain-plnprf01.dgn  
 PLOT NUMBER: 11-N  
 PEN TABLE: PEN



**LEGEND:**

|       |                    |
|-------|--------------------|
| ◇XXX  | DRAINAGE STRUCTURE |
| ○XXX  | STORM SEWER PIPE   |
| - - - | WETLAND LIMITS     |



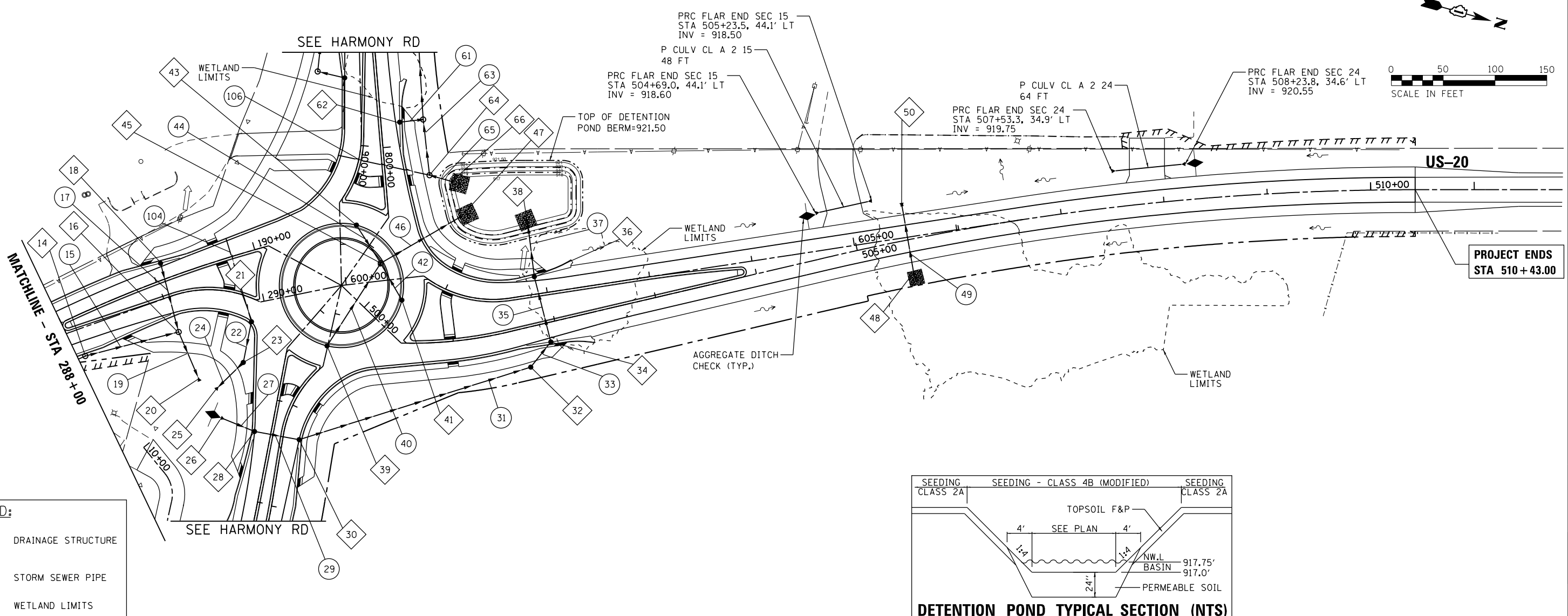
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|--|---|---|--|---|--|---|--------------------------------------|
|  | USER NAME = bharto<br>FILE NAME = D:\60101-sht-drain-plnprf01.dgn<br>PLOT SCALE = 1" = 50'<br>PLOT DATE = 3/29/2018 | DESIGNED - BH<br>DRAWN - DMS<br>CHECKED -<br>DATE - 3/29/18 | REVISED -<br>REVISED -<br>REVISED -<br>REVISED - | <b>STATE OF ILLINOIS</b><br><b>DEPARTMENT OF TRANSPORTATION</b> | <b>DRAINAGE &amp; UTILITY PLAN AND PROFILE</b><br><b>NORTHBOUND US ROUTE 20 SOUTH LEG PLAN AND PROFILE</b> | F.A.P. RTE. = 525<br>SECTION = 11-N<br>COUNTY = MCHENRY<br>CONTRACT NO. = 60T01 | TOTAL SHEETS = 135<br>SHEET NO. = 56 |
|  | SCALE: 1" = 50'<br>SHEET NO. 1 OF 5 SHEETS<br>STA. BEG TO STA. 288+00   | ILLINOIS FED. AID PROJECT                                   |  |   |  |   |                                      |



|      |                             |      |
|------|-----------------------------|------|
| PLAN | SURVEYED                    | DATE |
|      | PLOTTED                     | BY   |
|      | ALIGNMENT CHECKED           |      |
|      | GRADE CHECKED               |      |
|      | STRUCTURE NOTATIONS CHECKED |      |
|      | NOTE BOOK NO.               |      |
|      | FILE NAME                   |      |
|      | DATE PLOTTED                |      |
|      | SCALE                       |      |
|      | BY                          |      |

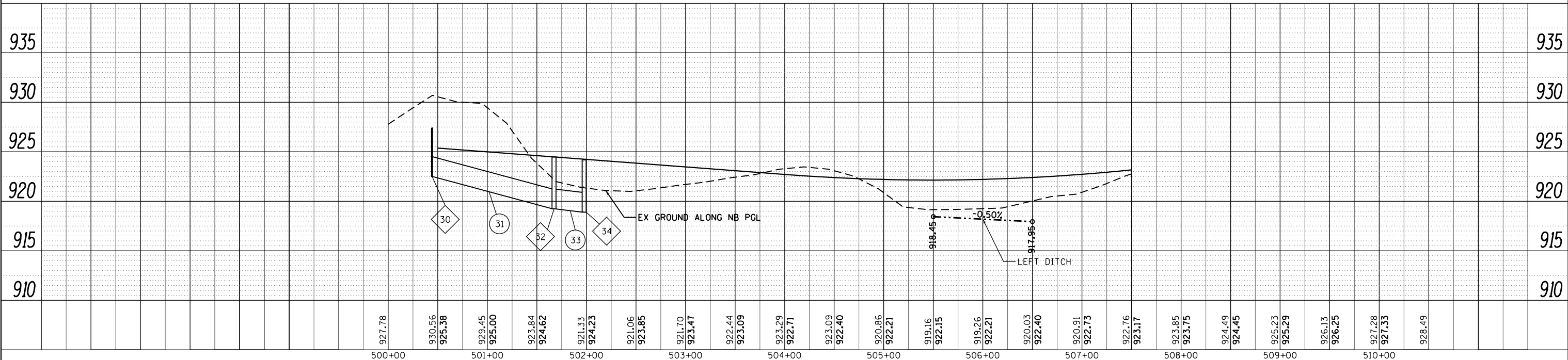
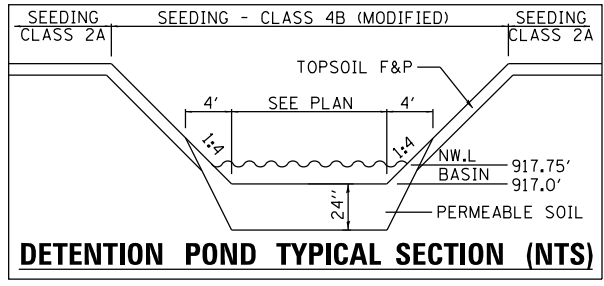
|         |                             |      |
|---------|-----------------------------|------|
| PROFILE | SURVEYED                    | DATE |
|         | PLOTTED                     | BY   |
|         | GRADES CHECKED              |      |
|         | STRUCTURE NOTATIONS CHECKED |      |
|         | NOTE BOOK NO.               |      |
|         | FILE NAME                   |      |
|         | DATE PLOTTED                |      |
|         | SCALE                       |      |
|         | BY                          |      |

COMPANY NAME: HRGreen  
 PROJECT CONTACT: bhartma  
 CLIENT: STATE OF ILLINOIS  
 DATE PLOTTED: 3/29/2018 9:17:45 AM  
 FILE NAME: D:\60101-sht-drain-plnprf02.dgn  
 PLOT NUMBER: 2  
 PEN TABLE: pen.tbl



**LEGEND:**

- ◇ XXX DRAINAGE STRUCTURE
- XXX STORM SEWER PIPE
- - - WETLAND LIMITS

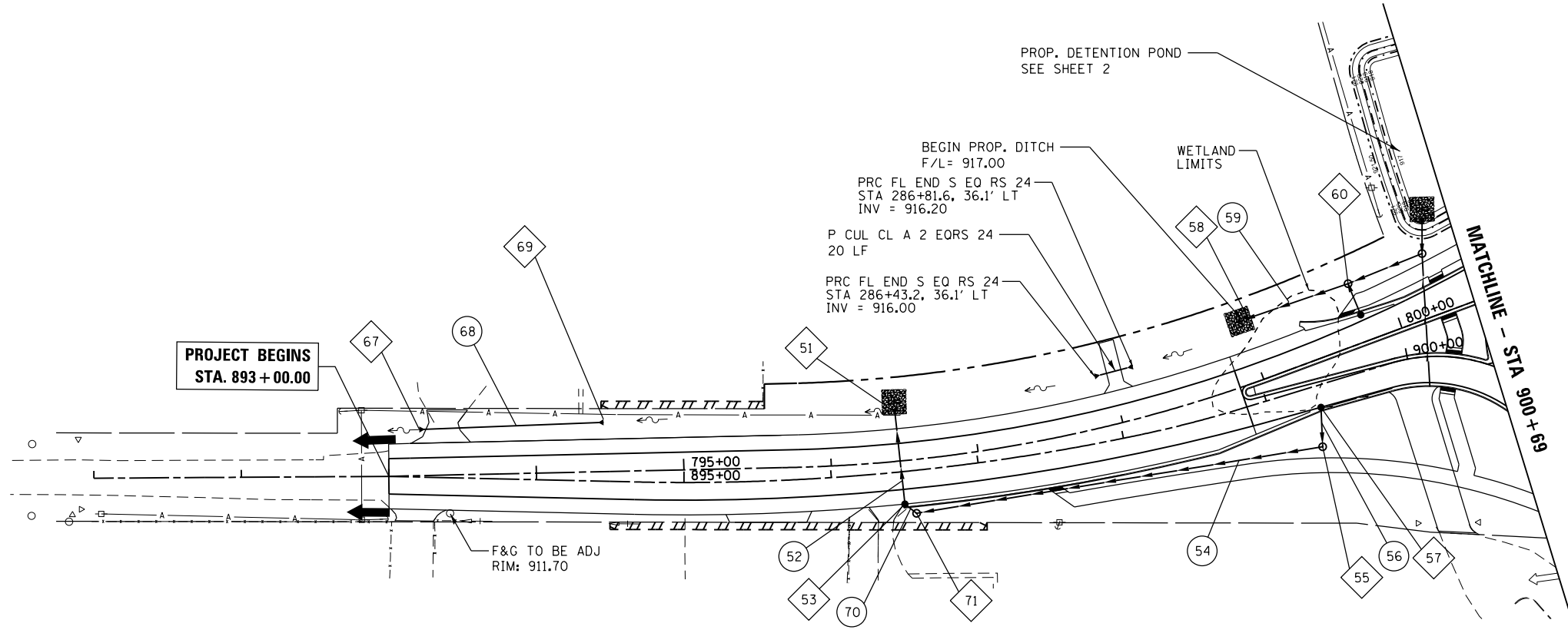


|  |  |   |  |   |  |   |                                      |
|--|--|---|--|---|--|---|--------------------------------------|
|  | USER NAME = bhartma<br>FILE NAME = D:\60101-sht-drain-plnprf02.dgn<br>PLOT SCALE = 1" = 50'<br>PLOT DATE = 3/29/2018 | DESIGNED - BH<br>DRAWN - DMS<br>CHECKED -<br>DATE - 3/29/18 | REVISED -<br>REVISED -<br>REVISED -<br>REVISED - | <b>STATE OF ILLINOIS</b><br><b>DEPARTMENT OF TRANSPORTATION</b> | <b>DRAINAGE &amp; UTILITY PLAN AND PROFILE</b><br><b>NORTHBOUND US ROUTE 20 NORTH LEG PLAN AND PROFILE</b> | F.A.P. RTE. = 525<br>SECTION = 11-N<br>COUNTY = MCHENRY<br>CONTRACT NO. = 60T01 | TOTAL SHEETS = 135<br>SHEET NO. = 57 |
|  | SCALE: 1" = 50'    SHEET NO. 2 OF 5 SHEETS    STA. 288+00 TO STA. 510+43   |   | ILLINOIS FED. AID PROJECT                        |   |  |   |                                      |

|      |          |    |      |
|------|----------|----|------|
| PLAN | SURVEYED | BY | DATE |
|      | PLOTTED  |    |      |
|      | ALIGNED  |    |      |
|      | CHECKED  |    |      |
|      | FILED    |    |      |
|      | NO.      |    |      |

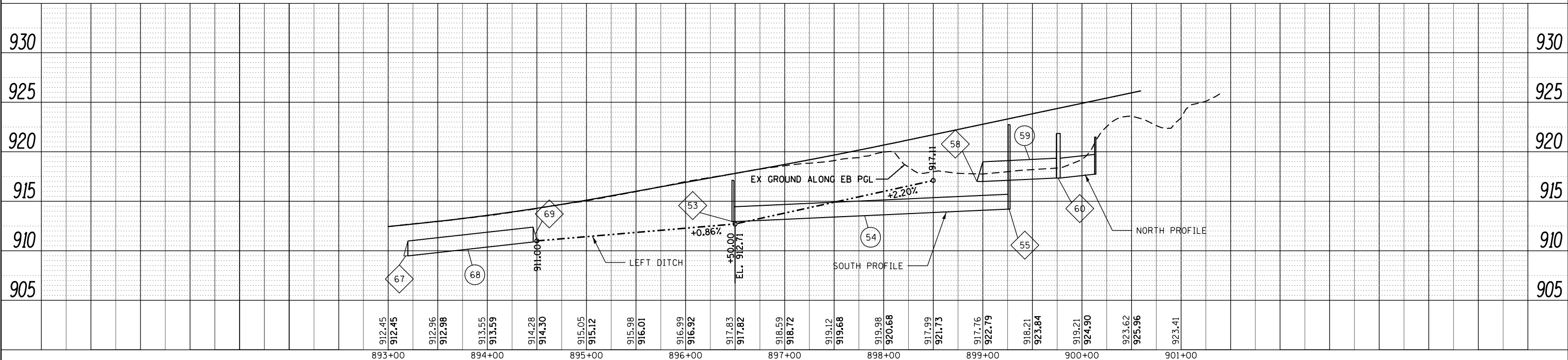
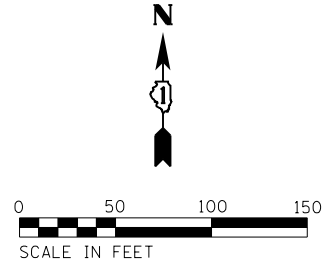
|         |           |    |      |
|---------|-----------|----|------|
| PROFILE | SURVEYED  | BY | DATE |
|         | PLOTTED   |    |      |
|         | GRADES    |    |      |
|         | CHECKED   |    |      |
|         | STRUCTURE |    |      |
|         | NOTATIONS |    |      |
|         | CHP       |    |      |
|         | NO.       |    |      |

COMPANY NAME: HRGreen  
 PROJECT CONTACT: bhartma  
 CLIENT: STATE OF ILLINOIS  
 DATE PLOTTED: 3/29/2018 9:15:50 AM  
 FILE NAME: D:\60101\sh-t-drain-plnprf03.dgn  
 PLOT NUMBER: 11-N  
 PEN TABLE: pen.tbl



**LEGEND:**

|      |                    |
|------|--------------------|
| ◇XXX | DRAINAGE STRUCTURE |
| ○XXX | STORM SEWER PIPE   |
| ---  | WETLAND LIMITS     |

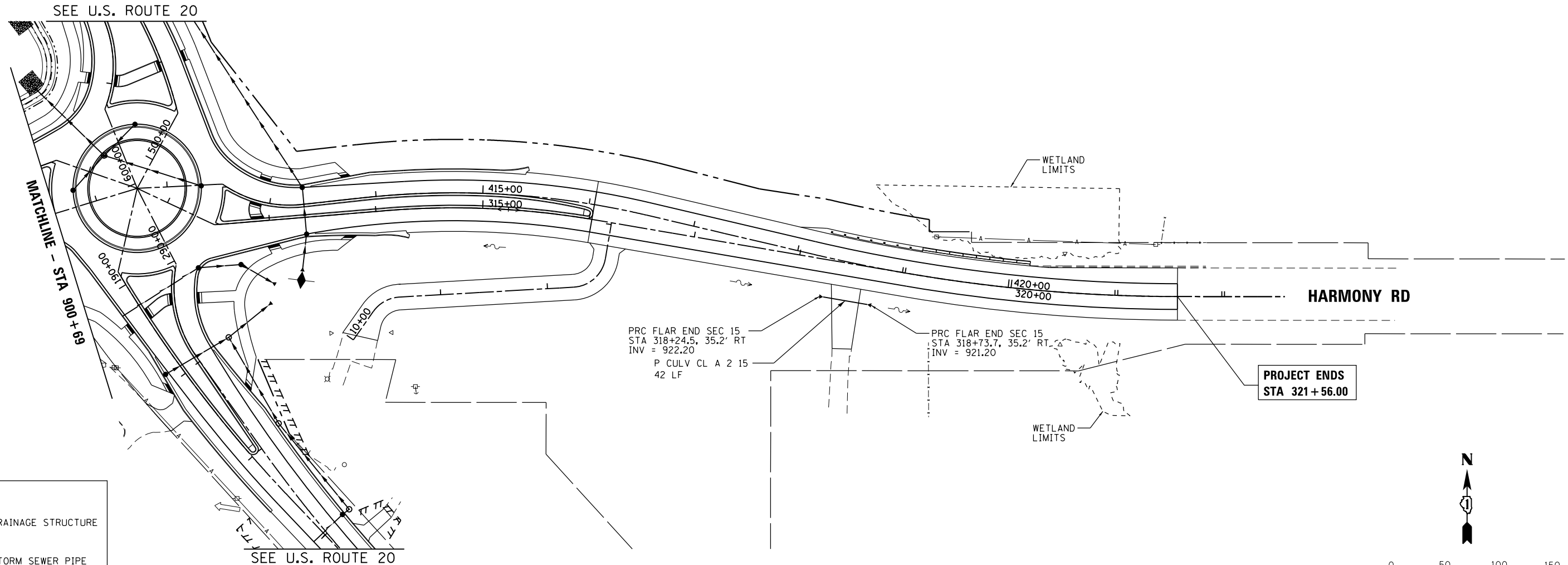


|  |   |   |  |  |  |   |                                      |                      |
|--|---|---|--|--|--|---|--------------------------------------|----------------------|
|  | USER NAME = bhartma<br>FILE NAME = D:\60101\sh-t-drain-plnprf03.dgn<br>PLOT SCALE = 1" = 50'<br>PLOT DATE = 3/29/2018 | DESIGNED - BH<br>DRAWN - DMS<br>CHECKED -<br>DATE - 3/29/18 | REVISED -<br>REVISED -<br>REVISED -<br>REVISED - | <b>STATE OF ILLINOIS<br/>         DEPARTMENT OF TRANSPORTATION</b> | <b>DRAINAGE &amp; UTILITY PLAN AND PROFILE<br/>         EASTBOUND HARMONY ROAD WEST LEG PLAN AND PROFILE</b> | F.A.P. RTE. = 525<br>SECTION = 11-N<br>COUNTY = MCHENRY<br>CONTRACT NO. = 135 | TOTAL SHEETS = 135<br>SHEET NO. = 58 | CONTRACT NO. = 60T01 |
|  | SCALE: 1" = 50'    SHEET NO. 3 OF 5 SHEETS    STA. 893+04 TO STA. 900+69  |   |  |  |  | ILLINOIS FED. AID PROJECT   |                                      |                      |

|      |           |    |      |
|------|-----------|----|------|
| PLAN | SURVEYED  | BY | DATE |
|      | PLOTTED   |    |      |
|      | NOTE BOOK |    |      |
|      | NO.       |    |      |

|         |           |    |      |
|---------|-----------|----|------|
| PROFILE | SURVEYED  | BY | DATE |
|         | PLOTTED   |    |      |
|         | NOTE BOOK |    |      |
|         | NO.       |    |      |

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: bhartma  
 CLIENT: STATE OF ILLINOIS  
 DATE PLOTTED: 3/29/2018 9:17:58 AM  
 FILE NAME: D:\60701\sh-t-drain-plnprf04.dgn  
 PLOT NUMBER: 4  
 PEN TABLE: PEN

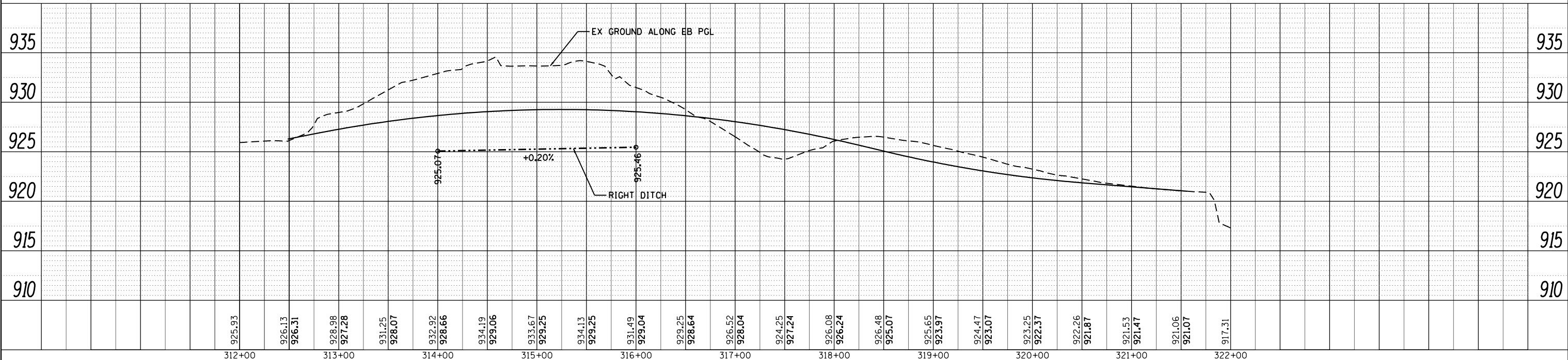


**LEGEND:**

- ◇ XXX DRAINAGE STRUCTURE
- XXX STORM SEWER PIPE
- - - WETLAND LIMITS

N

0 50 100 150  
SCALE IN FEET



|  |  |                |           |   |   |                    |                         |                |                  |                           |
|--|--|----------------|-----------|---|---|--------------------|-------------------------|----------------|------------------|---------------------------|
|  | USER NAME = bhartma                          | DESIGNED - BH  | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>DRAINAGE &amp; UTILITY PLAN AND PROFILE<br/>EASTBOUND HARMONY ROAD EAST LEG PLAN AND PROFILE</b> | F.A.P. RTE. 525    | SECTION 11-N            | COUNTY MCHENRY | TOTAL SHEETS 135 | SHEET NO. 59              |
|  | FILE NAME = D:\60701\sh-t-drain-plnprf04.dgn | DRAWN - DMS    | REVISED - |   |   | CONTRACT NO. 60T01 |                         |                |                  |                           |
|  | PLOT SCALE = 1" = 50'                        | CHECKED -      | REVISED - |   |   | SCALE: 1" = 50'    | SHEET NO. 4 OF 5 SHEETS | STA. 900+69    | TO STA. 421+58   | ILLINOIS FED. AID PROJECT |
|  | PLOT DATE = 3/29/2018                        | DATE - 3/29/18 | REVISED - |   |   |                    |                         |                |                  |                           |

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: bharta  
 DATE PLOTTED: 3/29/2018 9:05 AM  
 FILE NAME: D:\60101\ent\crain-tags.dgn  
 PLOT DRIVER: ilpdfwrt11  
 PEN TABLE: plot.tbl

| STRUCTURE NO. | STATION    | OFFSET    | TYPE                     | FRAME & GRATE | RIM ELEVATION | DRAINAGE INVERTS |           |        |           |        |           |        |           |
|---------------|------------|-----------|--------------------------|---------------|---------------|------------------|-----------|--------|-----------|--------|-----------|--------|-----------|
|               |            |           |                          |               |               | NORTH            | NORTHEAST | EAST   | SOUTHEAST | SOUTH  | SOUTHWEST | WEST   | NORTHWEST |
| 1             | 281+53.31  | 22.49' RT | PRC FLAR END SEC 12      | -             | -             | -                | -         | -      | -         | 925.18 | -         | -      | -         |
| 3             | 281+82.62  | 29.38' RT | MAN TA 4 DIA TIF CL      | TYPE 1, CL    | 930.10        | 926.94           | -         | -      | -         | 926.94 | -         | 926.94 | -         |
| 5             |            |           | DELETED                  |               |               |                  |           |        |           |        |           |        |           |
| 7             | 283+52.62  | 29.13' RT | MAN TA 4 DIA TIF CL      | TYPE 1, CL    | 932.34        | -                | -         | -      | -         | 927.62 | -         | 927.62 | -         |
| 9             | 283+53.81  | 22.00' RT | CB TA 4 DIA T24 F&G      | TYPE 24       | 932.11        | -                | -         | 927.66 | -         | -      | -         | -      | -         |
| 10            | 287+04.33  | 22.29' RT | CB TA 4 DIA T24 F&G      | TYPE 24       | 931.35        | -                | -         | 925.57 | -         | -      | -         | -      | -         |
| 12            | 287+04.05  | 30.17' RT | MAN TA 4 DIA TIF CL      | TYPE 1, CL    | 931.60        | 925.52           | -         | -      | -         | -      | -         | 925.52 | -         |
| 14            | 288+10.13  | 26.60' RT | MAN TA 4 DIA TIF CL      | TYPE 1, CL    | 929.50        | 923.86           | -         | -      | -         | 923.86 | -         | -      | -         |
| 16            | 289+02.80  | 35.00' RT | MAN TA 4 DIA TIF CL      | TYPE 1, CL    | 927.00        | -                | -         | 922.61 | -         | 922.61 | -         | 922.61 | -         |
| 18            | 289+08.27  | 33.26' LT | CB TA 4 DIA T24 F&G      | TYPE 24       | 925.85        | -                | -         | 922.96 | -         | -      | -         | -      | -         |
| 20            | 289+05.66  | 82.63' RT | PRC FLAR END SEC 15      | -             | -             | -                | -         | 922.50 | -         | -      | -         | -      | -         |
| 21            | 289+96.27  | 19.78' RT | CB TA 4 DIA T24 F&G      | TYPE 24       | 926.40        | -                | -         | 923.20 | -         | -      | -         | -      | -         |
| 23            | 312+70.26  | 39.08' RT | MAN TA 4 DIA TIF CL      | TYPE 1, CL    | 926.25        | -                | -         | -      | 922.80    | -      | -         | 922.80 | -         |
| 25            | 312+97.78  | 58.09' RT | PRC FLAR END SEC 12      | -             | -             | -                | -         | -      | -         | 922.50 | -         | -      | -         |
| 26            | 313+27.57  | 46.51' RT | PRC FLAR END SEC 24      | -             | -             | -                | -         | -      | -         | 922.50 | -         | -      | -         |
| 28            | 313+33.67  | 15.79' RT | CB TA 4 DIA T24 F&G      | TYPE 24       | 927.50        | 922.45           | -         | -      | -         | 922.45 | -         | -      | -         |
| 30            | 313+33.22  | 28.04' LT | CB TA 4 DIA T24 F&G      | TYPE 24       | 927.40        | 922.38           | -         | -      | -         | 922.38 | -         | -      | -         |
| 32            | 501+67.29  | 38.00' RT | CB TA 4 DIA T8 F&G       | TYPE 8        | 923.55        | 919.23           | -         | -      | -         | 919.23 | -         | -      | -         |
| 34            | 501+97.76  | 18.72' RT | CB TA 4 DIA T24 F&G      | TYPE 24       | 924.18        | -                | -         | -      | -         | 918.90 | -         | 918.90 | -         |
| 36            | 501+90.59  | 46.28' LT | CB TA 5 DIA T24 F&G      | TYPE 24       | 923.90        | -                | -         | 918.50 | -         | -      | -         | 918.50 | -         |
| 38            | 501+95.75  | 95.96' LT | PRC FLAR END SEC 27      | -             | -             | -                | -         | -      | -         | -      | -         | 918.21 | -         |
| 39            | 500+00.10  | 51.61' RT | CB TA 4 DIA W/SPL F&G    | SPL F&G       | 925.85        | -                | -         | -      | -         | -      | -         | -      | 921.68    |
| 41            | 500+21.25  | 30.37' RT | CB TA 4 DIA W/SPL F&G    | SPL F&G       | 924.94        | -                | -         | -      | -         | -      | -         | 921.13 | -         |
| 43            | 800+91.58  | 21.36' RT | CB TA 4 DIA W/SPL F&G    | SPL F&G       | 925.86        | -                | -         | 921.15 | -         | -      | -         | -      | -         |
| 45            | 801+08.37  | 18.90' LT | MAN TA 6 DIA TIF CL      | TYPE 1, CL    | 925.75        | 920.76           | -         | 920.76 | 920.76    | -      | -         | 920.76 | -         |
| 47            | 800+67.65  | 70.16' LT | PRC FLAR END SEC 12      | -             | -             | -                | -         | -      | -         | 919.00 | -         | -      | -         |
| 48            | 505+49.18  | 34.08' RT | PRC FL END S EQ RS 30    | -             | -             | -                | -         | 918.57 | -         | -      | -         | -      | -         |
| 50            | 505+50.38  | 36.12' LT | PRC FL END S EQ RS 30    | -             | -             | -                | -         | -      | -         | -      | -         | 918.40 | -         |
| 51            | 796+46.25  | 35.62' LT | PRC FLAR END SEC 15      | -             | -             | -                | -         | -      | -         | 912.71 | -         | -      | -         |
| 53            | 796+47.22  | 29.37' RT | CB TA 4 DIA T24 F&G      | TYPE 24       | 917.12        | 912.95           | -         | -      | 912.95    | -      | -         | -      | -         |
| 55            | 799+21.50' | 56.72' RT | MAN TA 4 DIA TIF CL      | TYPE 1, CL    | 922.74        | 918.85           | -         | -      | -         | -      | -         | 918.85 | -         |
| 57            | 799+29.77  | 31.21' RT | CB TA 4 DIA T24 F&G      | TYPE 24       | 923.40        | -                | -         | -      | -         | 919.00 | -         | -      | -         |
| 58            | 799+06.38  | 42.50' LT | PRC FLAR END SEC 24      | -             | -             | -                | -         | -      | -         | -      | -         | 917.10 | -         |
| 60            | 799+76.15  | 40.94' LT | MAN TA 5 DIA TIF CL      | TYPE 1, CL    | 922.10        | -                | -         | 917.60 | -         | 917.60 | -         | 917.60 | -         |
| 62            | 799+76.85  | 18.17' LT | CB TA 4 DIA T24 F&G      | TYPE 24       | 923.60        | 917.75           | -         | -      | -         | -      | -         | -      | -         |
| 64            | 800+30.26  | 42.61' LT | MH TA 6D W/2 TIFOL RP    | TYPE 1, OL    | 923.00        | 917.75           | -         | -      | -         | -      | -         | 917.75 | -         |
| 66            | 800+38.58  | 64.96' LT | PRC FLAR END SEC 24      | -             | -             | -                | -         | -      | -         | 917.80 | -         | -      | -         |
| 67            | 793+21.31  | 31.25' LT | PRC FLAR END SEC EQRS 24 | -             | -             | -                | -         | 909.60 | -         | -      | -         | -      | -         |
| 69            | 794+46.29  | 33.36' LT | PRC FLAR END SEC EQRS 24 | -             | -             | -                | -         | -      | -         | -      | -         | 910.90 | -         |
| 71            | 796+54.14  | 36.36' RT | MAN TA 4 DIA TIF CL      | TYPE 1, CL    | 917.45        | -                | -         | 913.12 | -         | -      | -         | -      | 913.02    |

| PIPE NO. | FROM STRUCT. | TO STRUCT. | TYPE                 | SIZE (IN) | LENGTH (FT) | SLOPE (%) | TRENCH BACKFILL (CU YD) |  |
|----------|--------------|------------|----------------------|-----------|-------------|-----------|-------------------------|--|
| 2        | 1            | 3          | STORM SEW CL A 2 12  | 12        | 32          | 5.5%      | 0.0                     |  |
| 4        |              |            | DELETED              |           |             |           |                         |  |
| 6        | 3            | 7          | STORM SEW CL A 2 12  | 12        | 167         | 0.4%      | 56.9                    |  |
| 8        | 7            | 9          | STORM SEW CL A 2 12  | 12        | 3           | 1.3%      | 1.0                     |  |
| 11       | 12           | 10         | STORM SEW CL A 2 12  | 12        | 3           | 1.7%      | 1.0                     |  |
| 13       | 12           | 14         | STORM SEW CL A 2 12  | 12        | 101         | 1.6%      | 0.0                     |  |
| 15       | 14           | 16         | STORM SEW CL A 2 15  | 15        | 90          | 1.4%      | 0.0                     |  |
| 17       | 16           | 18         | STORM SEW CL A 2 12  | 12        | 65          | 0.5%      | 22.2                    |  |
| 19       | 16           | 20         | STORM SEW CL A 2 15  | 15        | 43          | 0.3%      | 0.0                     |  |
| 22       | 21           | 23         | STORM SEW CL A 2 12  | 12        | 38          | 1.1%      | 13.0                    |  |
| 24       | 23           | 25         | STORM SEW CL A 2 12  | 12        | 30          | 1.0%      | 0.0                     |  |
| 27       | 26           | 28         | STORM SEW CL A 2 24  | 24        | 28          | 0.2%      | 9.9                     |  |
| 29       | 28           | 30         | STORM SEW CL A 2 24  | 24        | 41          | 0.2%      | 14.5                    |  |
| 31       | 30           | 32         | STORM SEW CL A 2 24  | 24        | 231         | 1.4%      | 3.5                     |  |
| 33       | 32           | 34         | STORM SEW CL A 2 24  | 24        | 28          | 1.2%      | 9.9                     |  |
| 35       | 34           | 36         | STORM SEW CL A 2 27  | 27        | 62          | 0.6%      | 21.9                    |  |
| 37       | 36           | 38         | STORM SEW CL A 2 27  | 27        | 43          | 0.7%      | 3.5                     |  |
| 40       | 39           | 45         | STORM SEW CL A 2 12  | 12        | 92          | 1.0%      | 31.4                    |  |
| 42       | 41           | 45         | STORM SEW CL A 2 12  | 12        | 38          | 1.0%      | 13.0                    |  |
| 44       | 43           | 45         | STORM SEW CL A 2 12  | 12        | 41          | 1.0%      | 14.0                    |  |
| 46       | 45           | 47         | STORM SEW CL A 2 12  | 12        | 83          | 2.1%      | 28.3                    |  |
| 49       | 50           | 48         | P CUL CL A 2 EORS 30 | EORS 30   | 58          | 0.3%      | 25.7                    |  |
| 52       | 53           | 51         | STORM SEW CL A 2 15  | 15        | 64          | 0.4%      | 22.5                    |  |
| 54       | 55           | 53         | STORM SEW CL A 2 15  | 15        | 275         | 2.1%      | 96.8                    |  |
| 56       | 57           | 55         | STORM SEW CL A 2 12  | 12        | 24          | 0.6%      | 8.2                     |  |
| 59       | 60           | 58         | STORM SEW CL A 2 24  | 24        | 65          | 0.8%      | 0.0                     |  |
| 61       | 60           | 62         | STORM SEW CL A 2 12  | 12        | 20          | 0.7%      | 6.8                     |  |
| 63       | 60           | 64         | STORM SEW CL A 2 24  | 24        | 50          | 0.3%      | 17.7                    |  |
| 65       | 66           | 64         | STORM SEW CL A 2 24  | 24        | 17          | 0.3%      | 6.0                     |  |
| 68       | 69           | 67         | P CUL CL A 2 EORS 24 | EORS 24   | 113         | 1.2%      | 50.1                    |  |
| 70       | 71           | 53         | STORM SEW CL A 2 15  | 15        | 7           | 1.0%      | 2.5                     |  |
| 100      | -            | 5          | PIPE UNDERDR T 2 4   | 4         | 35          | -         | -                       |  |
| 102      | -            | 10         | PIPE UNDERDR T 2 4   | 4         | 37          | -         | -                       |  |
| 104      | -            | 21         | PIPE UNDERDR T 2 4   | 4         | 85          | -         | -                       |  |
| 106      | -            | 64         | PIPE UNDERDR T 2 4   | 4         | 90          | -         | -                       |  |



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|   |                |           |
|---|----------------|-----------|
| USER NAME = bharta                      | DESIGNED - BH  | REVISED - |
| FILE NAME = D:\60101\ent\crain-tags.dgn | DRAWN - DMS    | REVISED - |
| PLOT SCALE = NTS                        | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                   | DATE - 3/29/18 | REVISED - |

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

DRAINAGE & UTILITY TAGS  
 US-20 AND HARMONY ROAD

SCALE: NTS SHEET NO. 5 OF 5 SHEETS STA. TO STA.

|   |         |         |              |           |
|---|---------|---------|--------------|-----------|
| F.A.P. RTE.                                   | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
| 525   | 11-N    | MCHENRY | 135          | 60        |
| CONTRACT NO. 60T01                            |         |         |              |           |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |         |         |              |           |

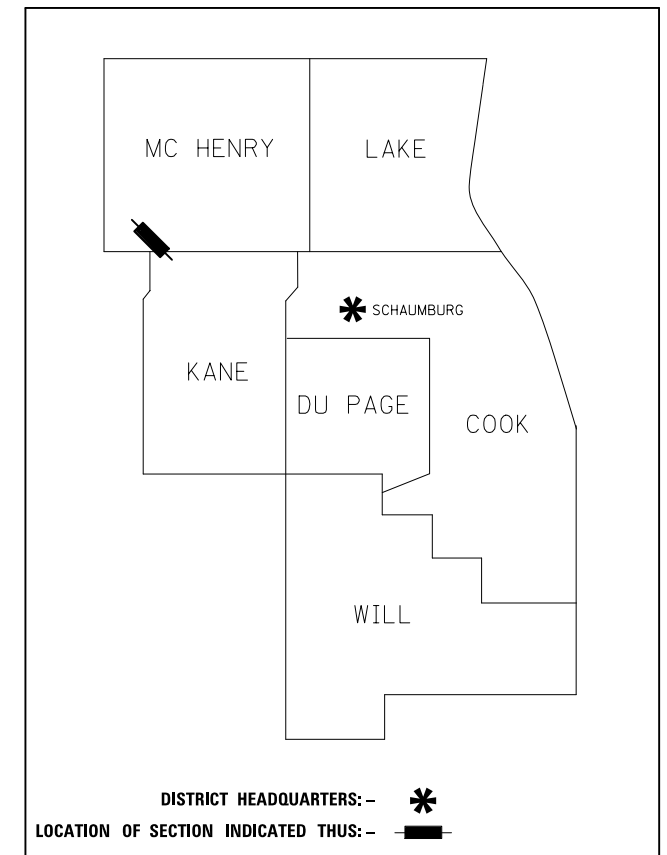
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS**

# PLAT OF HIGHWAYS

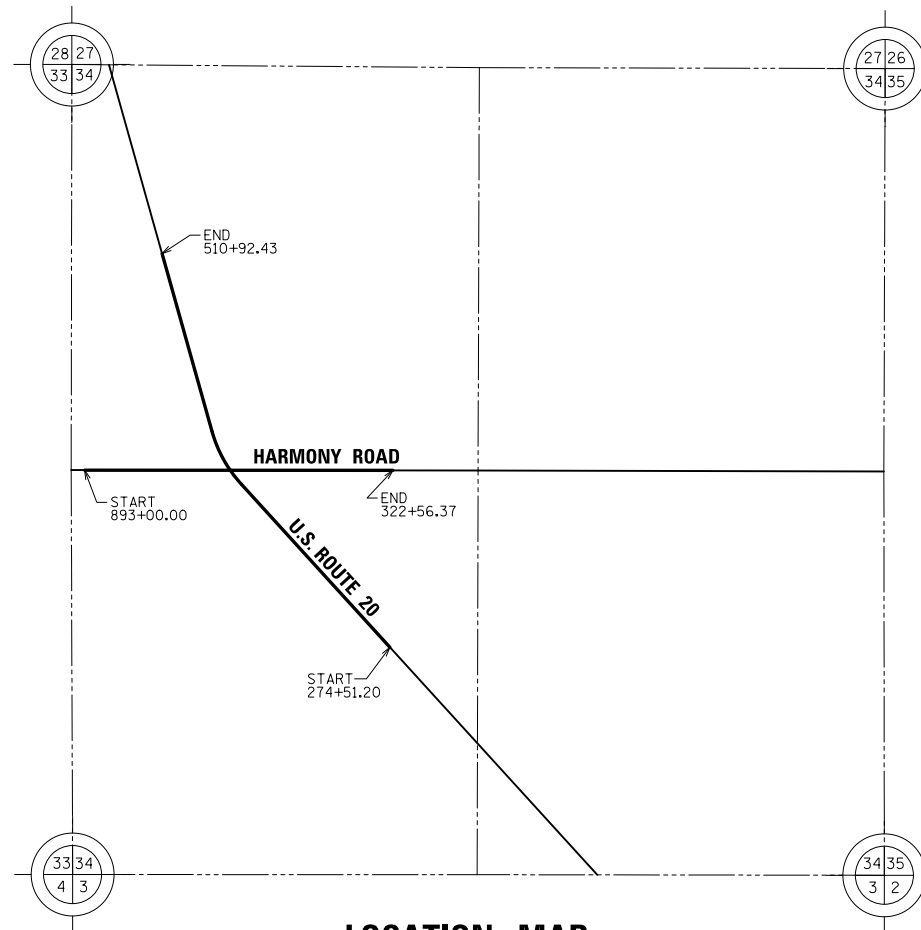
**ROUTE: U.S. ROUTE 20  
SECTION:  
COUNTY: MCHENRY  
LIMITS: AT HARMONY ROAD  
JOB NO.: R-91-013-12**

INDEX TABLE

| PARCEL NUMBER                         | OWNER  | SHEET NUMBER | PROPERTY ACQUIRED BY |
|---------------------------------------|--|--------------|----------------------|
| 1JR0001                               | CHICAGO TITLE LAND TRUST COMPANY, AS SUCCESSOR TRUSTEE TO LASALLE BANK, NATIONAL ASSOCIATION, AS TRUSTEE UNDER TRUST AGREEMENT DATED THE 10TH DAY OF APRIL, 1978 AND KNOWN AS TRUST NUMBER 33843 | 2            |                      |
| 1JR0002TE                             | HARRIS TRUST AND SAVINGS BANK (OR ITS SUCCESSOR), AS TRUSTEE UNDER TRUST AGREEMENT DATED NOVEMBER 1, 2002 AND KNOWN AS TRUST NO. HTB 1231  | 4            |                      |
| 1JR0003TE                             | S&S MARENGO PROPERTIES, LLC, AN ILLINOIS LIMITED LIABILITY COMPANY   | 4 & 5        |                      |
| 1JR0005TE                             | FRANCES J. BRITTON, AS TRUSTEE OF THE FRANCES J. BRITTON DECLARATION OF TRUST DATED JANUARY 12, 2000   | 2 & 5        |                      |
| 1JR0007TE                             | MOHAMMED A. KALISH AND GABRIELLE KALISH, AS JOINT TENANTS  | 3            |                      |
| 1JR0009<br>1JR0009TE-A<br>1JR0009TE-B | MARTIN HORN AND SUSAN HORN, HIS WIFE IN JOINT TENANCY  | 3            |                      |
| 1JR0010TE                             | STEVEN J. SULLIVAN AND HELEN SULLIVAN, HUSBAND AND WIFE, AS TENANTS BY THE ENTIRETY  | 3            |                      |
| 1JR0011TE                             | ST. JOHN'S UNITED CHURCH OF CHRIST OF HARMONY A/K/A ST. JOHN'S UNITED CHURCH OF CHRIST   | 3 & 5        |                      |
| 1JR0012<br>1JR0012TE                  | SMRT REAL PROPERTY, LLC, A DELAWARE LIMITED LIABILITY COMPANY  | 3, 4 & 5     |                      |
| 1JR0014TE                             | JANET CULLEN   | 2            |                      |
| 1JR0015TE                             | ELMER C. BRITTON, AS TRUSTEE OF THE ELMER C. BRITTON DECLARATION OF TRUST DATED JANUARY 12, 2000   | 2 & 5        |                      |



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OF THE STATE OF ILLINOIS**



**LOCATION MAP**

| DATE     | BY  |
|----------|-----|
| 03-17-16 | GKF |
| 03-17-16 | SMC |
| 03-17-16 | DAG |
| 12-08-16 | GKF |

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|  |  |                      |
|--|--|----------------------|
|  | <b>Mackie Consultants, LLC</b>         | <b>IDOT USE ONLY</b> |
|  | 9575 W. Higgins Road, Suite 500        |                      |
|  | Rosemont, IL 60018                     |                      |
|  | (847)696-1400<br>www.mackieconsult.com |                      |

PART OF THE NORTHWEST & SOUTHWEST QUARTER OF SECTION 34 TWP. 43 N., R. 6 E. OF THE 3RD. P.M., IN MCHENRY COUNTY, ILLINOIS.

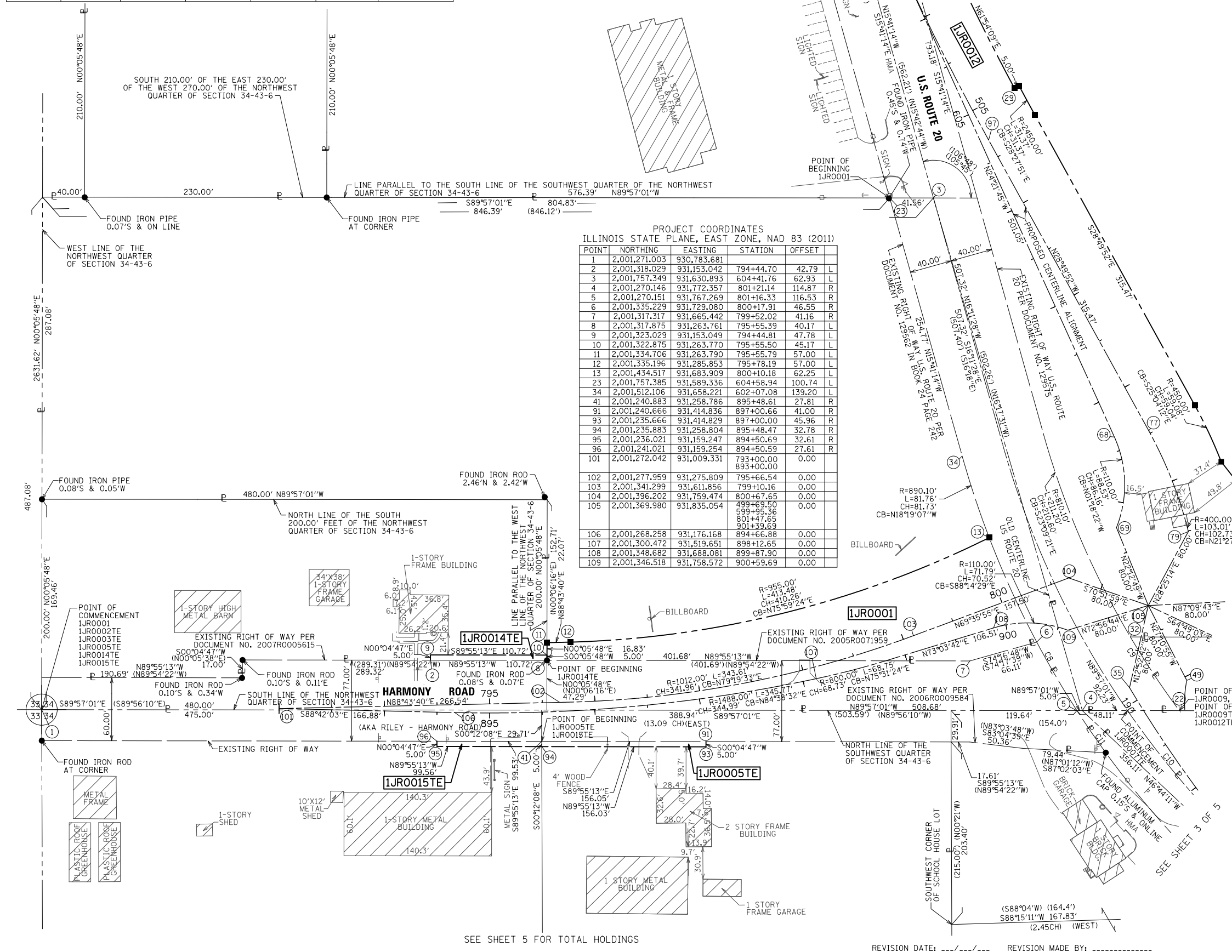
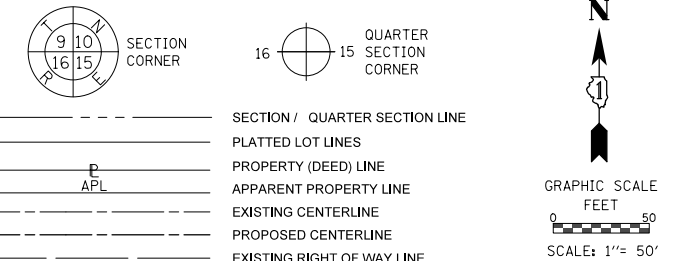
LEGEND

PARCEL TABLE

| PARCEL NUMBER | TOTAL HOLDINGS ACRES | PART TAKEN ACRES | AREA IN EXISTING R.O.W ACRES | REMAINDER AREA ACRES | EASEMENT AREA ACRES | PERMANENT INDEX NUMBER         |
|---------------|----------------------|------------------|------------------------------|----------------------|---------------------|--------------------------------|
| 1JR0001       | 7.511                | 0.954            | 0.417                        | 6.557                | N/A                 | 17-34-100-027<br>17-34-100-028 |
| 1JR0005TE     | 4.756                | N/A              | N/A                          | 4.756                | 0.018               | 17-34-300-031                  |
| 1JR0014TE     | 1.756                | N/A              | N/A                          | 1.756                | 0.013               | 17-34-100-033                  |
| 1JR0015TE     | 5.808                | N/A              | N/A                          | 5.808                | 0.011               | 17-34-300-030                  |

CURVE TABLE

| CURVE | RADIUS  | ARC LENGTH | CHORD LENGTH | CHORD BEARING                |
|-------|---------|------------|--------------|------------------------------|
| CB    | 890.10' | 75.48'     | 75.46'       | N30°24'18"W<br>(N30°23'25"W) |



PROJECT COORDINATES  
ILLINOIS STATE PLANE, EAST ZONE, NAD 83 (2011)

| POINT | NORTHING      | EASTING     | STATION   | OFFSET    |
|-------|---------------|-------------|-----------|-----------|
| 1     | 2,001,271.003 | 930,783.681 |           |           |
| 2     | 2,001,318.029 | 931,153.042 | 794+44.70 | 42.79 L   |
| 3     | 2,001,757.349 | 931,630.893 | 604+41.76 | 62.93 L   |
| 4     | 2,001,270.146 | 931,772.357 | 801+21.14 | 114.87 R  |
| 5     | 2,001,270.151 | 931,767.269 | 801+16.33 | 116.53 R  |
| 6     | 2,001,335.229 | 931,729.080 | 800+17.91 | 46.55 R   |
| 7     | 2,001,317.317 | 931,665.442 | 799+52.02 | 41.16 R   |
| 8     | 2,001,317.875 | 931,263.761 | 795+55.39 | 40.17 L   |
| 9     | 2,001,323.029 | 931,153.049 | 794+44.81 | 47.78 L   |
| 10    | 2,001,322.875 | 931,263.770 | 795+55.50 | 45.17 L   |
| 11    | 2,001,334.706 | 931,263.790 | 795+55.79 | 57.00 L   |
| 12    | 2,001,335.196 | 931,285.853 | 795+78.19 | 57.00 L   |
| 13    | 2,001,434.517 | 931,683.909 | 800+10.18 | 62.25 L   |
| 23    | 2,001,757.385 | 931,589.336 | 604+58.94 | 100.74 L  |
| 34    | 2,001,512.106 | 931,658.221 | 602+07.08 | 139.20 L  |
| 41    | 2,001,240.883 | 931,258.786 | 895+48.61 | 27.81 R   |
| 91    | 2,001,240.666 | 931,414.836 | 897+00.66 | 41.00 R   |
| 93    | 2,001,235.666 | 931,414.829 | 897+00.00 | 45.96 R   |
| 94    | 2,001,235.883 | 931,258.804 | 895+48.47 | 32.78 R   |
| 95    | 2,001,236.021 | 931,159.247 | 894+50.69 | 32.61 R   |
| 96    | 2,001,241.021 | 931,159.254 | 894+50.59 | 27.61 R   |
| 101   | 2,001,272.042 | 931,009.331 | 793+00.00 | 893+00.00 |
| 102   | 2,001,277.959 | 931,275.809 | 795+66.54 | 0.00      |
| 103   | 2,001,341.299 | 931,611.856 | 799+10.16 | 0.00      |
| 104   | 2,001,396.202 | 931,759.474 | 800+67.65 | 0.00      |
| 105   | 2,001,369.980 | 931,835.054 | 499+69.50 | 0.00      |
| 106   | 2,001,268.258 | 931,176.168 | 894+66.88 | 0.00      |
| 107   | 2,001,300.472 | 931,519.651 | 898+12.65 | 0.00      |
| 108   | 2,001,348.682 | 931,688.081 | 899+87.90 | 0.00      |
| 109   | 2,001,346.518 | 931,758.572 | 900+59.69 | 0.00      |

BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD83 (2011 ADJUSTMENT), EAST ZONE.

NOTES:

- ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.
- BEARINGS AND DISTANCES SHOWN HEREON ARE ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) "GRID".
- ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND". TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES BY THE COMBINATION FACTOR OF 0.99993908.
- AREAS SHOWN ON THIS PLAT ARE GROUND.
- SEE SHEET 5 OF 5 FOR ADDITIONAL PROPOSED CENTERLINE ALIGNMENT AND TOTAL HOLDING INFORMATION.

STATE OF ILLINOIS )  
COUNTY OF COOK )

THIS IS TO CERTIFY THAT WE, MACKIE CONSULTANTS, LLC, AN ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-002694, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 34, TOWNSHIP 43 NORTH, RANGE 6 EAST OF THE THIRD PRINCIPAL MERIDIAN, MCHENRY COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT ROSEMONT, ILLINOIS THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_ A.D.

DALE A. GRAY  
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003057  
LICENSE EXPIRES: NOVEMBER 30, 2018  
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

**Mackie Consultants, LLC**  
9575 W. Higgins Road, Suite 500  
Rosemont, IL 60018  
(847)696-1400  
www.mackieconsult.com

**PLAT OF HIGHWAYS**  
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
U.S. ROUTE 20

LIMITS: AT HARMONY ROAD COUNTY: MCHENRY  
SECTION: STA. 793+00 TO STA. 901+40 JOB NO.: R-91-013-12  
SCALE: 1" = 50' SHEET 2 OF 5 SHEETS

**BUREAU OF LAND ACQUISITION**  
201 WEST CENTER COURT  
SCHAMBURG, ILLINOIS 60196

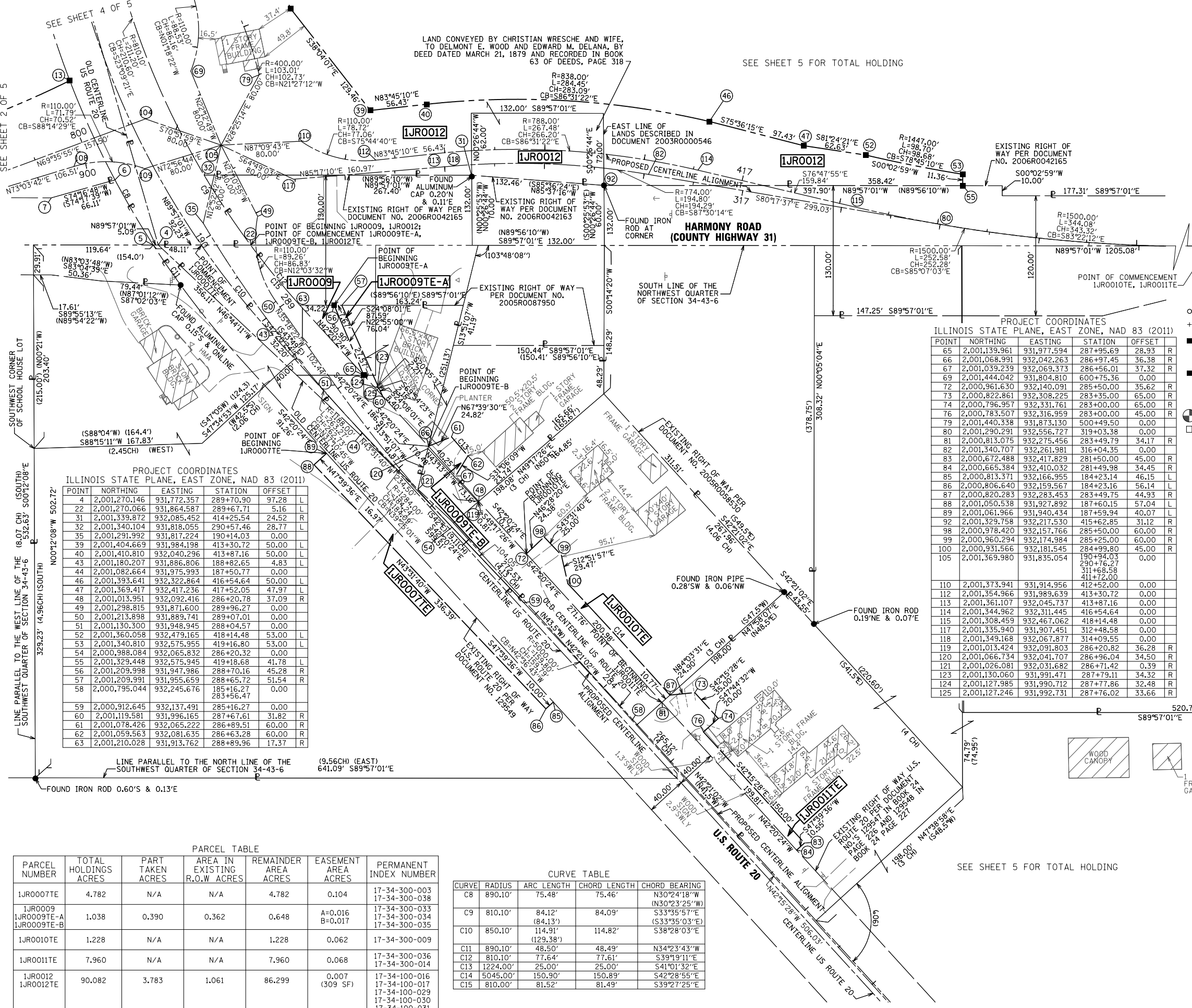
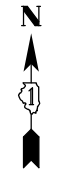
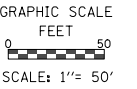
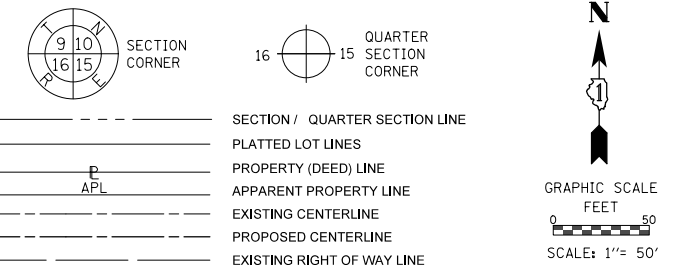
| DATE     | BY  |
|----------|-----|
| 03-17-16 | GKF |
| 03-17-16 | SMC |
| 04-01-16 | DAG |
| 04-01-16 | GKF |
| 12-08-16 | GKF |

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REVISION DATE: \_\_\_\_\_ REVISION MADE BY: \_\_\_\_\_

PART OF THE NORTHWEST & SOUTHWEST QUARTER OF SECTION 34 TWP. 43 N., R. 6 E. OF THE 3RD. P.M., IN MCHENRY COUNTY, ILLINOIS.

**LEGEND**



BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD83 (2011 ADJUSTMENT), EAST ZONE.

- IRON PIPE OR ROD FOUND
  - + CUT CROSS FOUND OR SET
  - \*MAG\* NAIL SET
  - 5/8" REBAR SET
  - STAKING OF PROPOSED RIGHT OF WAY.
  - M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS.
  - PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
- NOTES:  
 1. ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.  
 2. BEARINGS AND DISTANCES SHOWN HEREON ARE ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) "GRID".  
 3. ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND". TO OBTAIN GRID DISTANCES, DIVIDE GRID DISTANCES BY THE COMBINATION FACTOR OF 0.99993908.  
 4. AREAS SHOWN ON THIS PLAT ARE GROUND.  
 5. SEE SHEET 5 OF 5 FOR ADDITIONAL PROPOSED CENTERLINE ALIGNMENT AND TOTAL HOLDING INFORMATION.

**PROJECT COORDINATES**

ILLINOIS STATE PLANE, EAST ZONE, NAD 83 (2011)

| POINT | NORTHING      | EASTING     | STATION   | OFFSET |   |
|-------|---------------|-------------|-----------|--------|---|
| 65    | 2,001,139.961 | 931,977.594 | 287+95.69 | 28.93  | R |
| 66    | 2,001,068.991 | 932,042.263 | 286+97.45 | 36.38  | R |
| 67    | 2,001,039.239 | 932,069.373 | 286+56.01 | 37.32  | R |
| 69    | 2,001,444.042 | 931,804.810 | 600+75.36 | 0.00   |   |
| 72    | 2,000,961.630 | 932,140.091 | 285+50.00 | 35.62  | R |
| 73    | 2,000,822.861 | 932,308.225 | 283+35.00 | 65.00  | R |
| 74    | 2,000,796.957 | 932,331.761 | 283+00.00 | 65.00  | R |
| 76    | 2,000,783.507 | 932,316.959 | 283+00.00 | 45.00  | R |
| 79    | 2,001,440.338 | 931,873.130 | 500+49.50 | 0.00   |   |
| 80    | 2,001,290.291 | 932,556.727 | 319+03.38 | 0.00   | R |
| 81    | 2,000,813.075 | 932,275.456 | 283+49.79 | 34.17  | R |
| 82    | 2,001,340.707 | 932,261.981 | 316+04.35 | 0.00   | R |
| 83    | 2,000,672.488 | 932,417.829 | 281+50.00 | 45.00  | R |
| 84    | 2,000,665.384 | 932,410.032 | 281+49.98 | 34.45  | R |
| 85    | 2,000,813.371 | 932,166.955 | 184+23.14 | 46.15  | L |
| 86    | 2,000,806.640 | 932,159.567 | 184+23.16 | 56.14  | L |
| 87    | 2,000,820.283 | 932,283.453 | 283+49.75 | 44.93  | L |
| 88    | 2,001,050.538 | 931,927.892 | 187+60.15 | 57.04  | L |
| 89    | 2,001,061.966 | 931,940.434 | 187+59.94 | 40.07  | L |
| 92    | 2,001,329.758 | 932,217.530 | 415+62.85 | 31.12  | R |
| 98    | 2,000,978.420 | 932,157.766 | 285+50.00 | 60.00  | R |
| 99    | 2,000,960.294 | 932,174.984 | 285+25.00 | 60.00  | R |
| 100   | 2,000,931.566 | 932,181.545 | 284+99.80 | 45.00  | R |
| 105   | 2,001,369.980 | 931,835.054 | 190+94.03 | 0.00   |   |
| 110   | 2,001,373.941 | 931,914.956 | 412+52.00 | 0.00   |   |
| 112   | 2,001,354.966 | 931,989.639 | 413+30.72 | 0.00   |   |
| 113   | 2,001,361.107 | 932,045.737 | 413+87.16 | 0.00   |   |
| 114   | 2,001,344.962 | 932,311.445 | 416+54.64 | 0.00   |   |
| 115   | 2,001,308.459 | 932,467.062 | 418+14.48 | 0.00   |   |
| 117   | 2,001,335.940 | 931,907.451 | 312+48.58 | 0.00   |   |
| 118   | 2,001,349.168 | 932,067.877 | 314+09.55 | 0.00   |   |
| 119   | 2,001,013.424 | 932,091.803 | 286+20.82 | 36.28  | R |
| 120   | 2,001,066.734 | 932,041.707 | 286+96.04 | 34.50  | R |
| 121   | 2,001,026.081 | 932,031.682 | 286+71.42 | 0.39   | R |
| 123   | 2,001,130.060 | 931,991.471 | 287+79.11 | 34.32  | R |
| 124   | 2,001,127.985 | 931,990.712 | 287+77.86 | 32.48  | R |
| 125   | 2,001,127.246 | 931,992.731 | 287+76.02 | 33.66  | R |

**PROJECT COORDINATES**  
ILLINOIS STATE PLANE, EAST ZONE, NAD 83 (2011)

| POINT | NORTHING      | EASTING     | STATION   | OFFSET |   |
|-------|---------------|-------------|-----------|--------|---|
| 4     | 2,001,270.146 | 931,772.357 | 289+70.90 | 97.28  | L |
| 22    | 2,001,270.066 | 931,864.587 | 289+67.71 | 5.16   | L |
| 31    | 2,001,339.872 | 932,085.452 | 414+25.54 | 24.52  | R |
| 32    | 2,001,340.104 | 931,818.055 | 290+57.46 | 28.77  | L |
| 35    | 2,001,291.992 | 931,817.224 | 190+14.03 | 0.00   |   |
| 39    | 2,001,404.669 | 931,984.198 | 413+30.72 | 50.00  | L |
| 40    | 2,001,410.810 | 932,040.296 | 413+87.16 | 50.00  | L |
| 43    | 2,001,180.207 | 931,886.806 | 188+82.65 | 4.83   | L |
| 44    | 2,001,082.664 | 931,975.993 | 187+50.77 | 0.00   |   |
| 46    | 2,001,393.641 | 932,322.864 | 416+54.64 | 50.00  | L |
| 47    | 2,001,369.417 | 932,417.236 | 417+52.05 | 47.97  | L |
| 48    | 2,001,013.951 | 932,092.416 | 286+20.78 | 37.09  | R |
| 49    | 2,001,298.815 | 931,871.600 | 289+96.27 | 0.00   |   |
| 50    | 2,001,213.898 | 931,889.741 | 289+07.01 | 0.00   |   |
| 51    | 2,001,130.300 | 931,948.945 | 288+04.57 | 0.00   |   |
| 52    | 2,001,360.058 | 932,479.165 | 418+14.48 | 53.00  | L |
| 53    | 2,001,340.810 | 932,575.955 | 419+16.80 | 53.00  | L |
| 54    | 2,000,988.084 | 932,065.832 | 286+20.32 | 0.00   |   |
| 55    | 2,001,329.448 | 932,575.945 | 419+18.68 | 41.78  | L |
| 56    | 2,001,209.998 | 931,947.986 | 288+70.16 | 45.28  | R |
| 57    | 2,001,209.991 | 931,955.659 | 288+65.72 | 51.54  | R |
| 58    | 2,000,795.044 | 932,245.676 | 185+16.27 | 0.00   |   |
| 59    | 2,000,912.645 | 932,137.491 | 285+16.27 | 0.00   |   |
| 60    | 2,001,119.581 | 931,996.165 | 287+67.61 | 31.82  | R |
| 61    | 2,001,078.426 | 932,065.222 | 286+89.51 | 60.00  | R |
| 62    | 2,001,059.563 | 932,081.635 | 286+63.28 | 60.00  | R |
| 63    | 2,001,210.028 | 931,913.762 | 288+89.96 | 17.37  | R |

| DATE     | BY  | REVISION |
|----------|-----|----------|
| 12-08-16 | GKF | REVISED  |
| 12-12-16 | GKF | REVISED  |
| 03-17-16 | GKF | REVISED  |
| 03-17-16 | DAG | REVISED  |
| 04-01-16 | GKF | REVISED  |
| 11-16-16 | GKF | REVISED  |

**PARCEL TABLE**

| PARCEL NUMBER                         | TOTAL HOLDINGS ACRES | PART TAKEN ACRES | AREA IN EXISTING R.O.W ACRES | REMAINDER AREA ACRES | EASEMENT AREA ACRES | PERMANENT INDEX NUMBER  |
|---------------------------------------|----------------------|------------------|------------------------------|----------------------|---------------------|---|
| 1JR0007TE                             | 4.782                | N/A              | N/A                          | 4.782                | 0.104               | 17-34-300-003<br>17-34-300-038  |
| 1JR0009<br>1JR0009TE-A<br>1JR0009TE-B | 1.038                | 0.390            | 0.362                        | 0.648                | A=0.016<br>B=0.017  | 17-34-300-033<br>17-34-300-034<br>17-34-300-035                                   |
| 1JR0010TE                             | 1.228                | N/A              | N/A                          | 1.228                | 0.062               | 17-34-300-009   |
| 1JR0011TE                             | 7.960                | N/A              | N/A                          | 7.960                | 0.068               | 17-34-300-036<br>17-34-300-014  |
| 1JR0012<br>1JR0012TE                  | 90.082               | 3.783            | 1.061                        | 86.299               | 0.007<br>(309 SF)   | 17-34-100-016<br>17-34-100-017<br>17-34-100-029<br>17-34-100-030<br>17-34-100-031 |

**CURVE TABLE**

| CURVE | RADIUS   | ARC LENGTH           | CHORD LENGTH | CHORD BEARING                |
|-------|----------|----------------------|--------------|------------------------------|
| C8    | 890.10'  | 75.48'               | 75.46'       | N30°24'18"W<br>(N30°23'25"W) |
| C9    | 810.10'  | 84.12'               | 84.09'       | S33°35'57"E<br>(84.13')      |
| C10   | 850.10'  | 114.91'<br>(129.38') | 114.82'      | S38°28'03"E                  |
| C11   | 890.10'  | 48.50'               | 48.49'       | N34°23'43"W                  |
| C12   | 810.10'  | 77.64'               | 77.61'       | S39°19'11"E                  |
| C13   | 1224.00' | 25.00'               | 25.00'       | S41°01'32"E                  |
| C14   | 5045.00' | 150.90'              | 150.89'      | S42°28'55"E                  |
| C15   | 810.00'  | 81.52'               | 81.49'       | S39°27'25"E                  |

**DOT USE ONLY**

LIMITS: AT HARMONY ROAD COUNTY: MCHENRY  
 SECTION: JOB NO.: R-91-013-12  
 STA. 281+50 TO STA. 290+76 (U.S. ROUTE 20)  
 SCALE: 1" = 50' 419+18.65 HARMONY ROAD  
 SHEET 3 OF 5 SHEETS

**Mackie Consultants, LLC**  
 9575 W. Higgins Road, Suite 500  
 Rosemont, IL 60018  
 (847)696-1400  
 www.mackieconsult.com

**PLAT OF HIGHWAYS**  
 STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 U.S. ROUTE 20

LIMITS: AT HARMONY ROAD COUNTY: MCHENRY  
 SECTION: JOB NO.: R-91-013-12  
 STA. 281+50 TO STA. 290+76 (U.S. ROUTE 20)  
 SCALE: 1" = 50' 419+18.65 HARMONY ROAD  
 SHEET 3 OF 5 SHEETS

**BUREAU OF LAND ACQUISITION**  
 201 WEST CENTER COURT  
 SCHAMBURG, ILLINOIS 60196

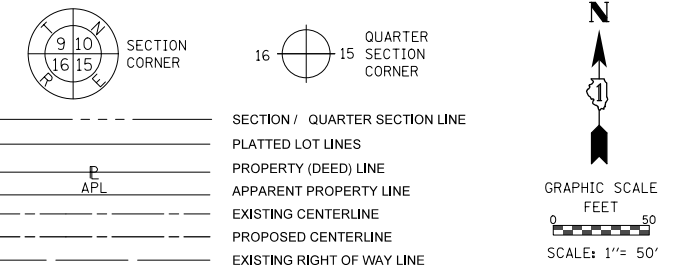
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REVISION DATE: \_\_\_\_\_ REVISION MADE BY: \_\_\_\_\_

PART OF THE NORTHWEST & SOUTHWEST QUARTER OF SECTION 34 TWP. 43 N., R. 6 E. OF THE 3RD. P.M., IN MCHENRY COUNTY, ILLINOIS.

**LEGEND**

| PARCEL TABLE         |                      |                  |                               |                      |                     |   |
|----------------------|----------------------|------------------|-------------------------------|----------------------|---------------------|---|
| PARCEL NUMBER        | TOTAL HOLDINGS ACRES | PART TAKEN ACRES | AREA IN EXISTING R.O.W. ACRES | REMAINDER AREA ACRES | EASEMENT AREA ACRES | PERMANENT INDEX NUMBER  |
| 1JR0002TE            | 4.893                | N/A              | N/A                           | 4.893                | 0.010 (448 SF)      | 17-34-100-025   |
| 1JR0003TE            | 11.213               | N/A              | N/A                           | 11.213               | 0.051               | 17-34-100-020   |
| 1JR0012<br>1JR0012TE | 90.082               | 3.783            | 1.061                         | 86.299               | 0.007 (309 SF)      | 17-34-100-016<br>17-34-100-017<br>17-34-100-029<br>17-34-100-030<br>17-34-100-031 |



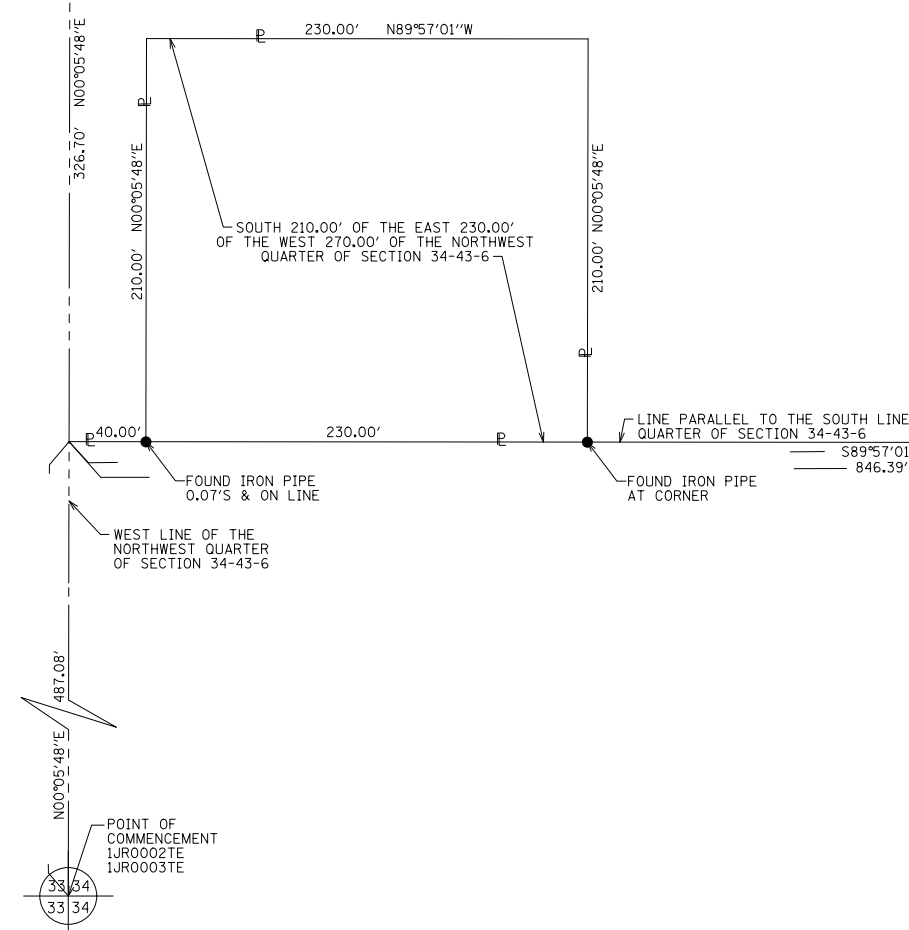
SEE SHEET 5 FOR TOTAL HOLDING

SEE SHEET 5 FOR TOTAL HOLDING

SEE SHEET 5 FOR TOTAL HOLDING

| BY  | DATE     |
|-----|----------|
| GKF | 03-17-16 |
| SMC | 03-17-16 |
| DAG | 04-01-16 |
| GKF | 04-01-16 |
| GKF | 12-08-16 |

|          | DATE     |
|----------|----------|
| DRAWN    | 03-17-16 |
| APPROVED | 03-17-16 |
| REVISED  | 04-01-16 |
| REVISED  | 12-08-16 |



PROJECT COORDINATES  
ILLINOIS STATE PLANE, EAST ZONE, NAD 83 (2011)

| POINT | NORTHING      | EASTING     | STATION   | OFFSET   |
|-------|---------------|-------------|-----------|----------|
| 3     | 2,001,757.349 | 931,630.893 | 504+45.16 | 72.53 L  |
| 14    | 2,002,060.319 | 931,504.258 | 607+67.74 | 55.47 L  |
| 15    | 2,002,055.060 | 931,490.714 | 607+67.93 | 70.00 L  |
| 17    | 2,002,084.180 | 931,479.153 | 607+98.41 | 70.00 L  |
| 18    | 2,002,096.929 | 931,474.221 | 608+11.71 | 70.00 L  |
| 19    | 2,002,084.164 | 931,497.561 | 607+91.85 | 52.86 L  |
| 20    | 2,002,139.304 | 931,479.675 | 608+48.58 | 50.00 L  |
| 21    | 2,002,329.855 | 931,418.115 | 610+44.95 | 50.00 L  |
| 23    | 2,001,757.385 | 931,589.336 | 604+58.94 | 100.77 L |
| 24    | 2,002,297.369 | 931,520.779 | 509+83.04 | 39.38 R  |
| 25    | 2,002,332.574 | 931,427.797 | 610+44.96 | 39.94 L  |
| 26    | 2,002,354.154 | 931,504.831 | 510+42.97 | 40.06 R  |
| 27    | 2,002,355.491 | 931,509.591 | 510+42.97 | 45.00 R  |
| 28    | 2,002,297.322 | 931,526.668 | 509+81.24 | 45.00 R  |
| 29    | 2,001,861.655 | 931,707.866 | 505+00.00 | 45.00 R  |
| 33    | 2,001,864.010 | 931,712.276 | 505+00.00 | 50.00 R  |
| 34    | 2,001,512.106 | 931,658.221 | 602+07.08 | 139.20 L |
| 36    | 2,001,836.431 | 931,727.228 | 504+67.99 | 50.00 R  |
| 37    | 2,001,560.062 | 931,879.359 | 501+52.51 | 50.00 R  |
| 38    | 2,001,506.588 | 931,904.374 | 501+00.00 | 50.00 R  |
| 68    | 2,001,530.181 | 931,802.846 | 601+63.89 | 0.00     |
| 70    | 2,001,986.618 | 931,596.156 | 506+62.96 | 0.00     |
|       |               |             | 606+64.95 |          |
| 71    | 2,002,343.346 | 931,466.260 | 510+42.97 | 0.00     |
|       |               |             | 610+44.95 |          |
| 77    | 2,001,535.950 | 931,835.557 | 501+52.51 | 0.00     |
| 78    | 2,002,390.972 | 931,452.915 | 510+92.43 | 0.00     |
|       |               |             | 610+94.41 |          |
| 97    | 2,001,812.320 | 931,683.426 | 504+67.99 | 0.00     |
| 122   | 2,002,297.697 | 931,479.140 | 509+95.54 | 0.37 L   |

- BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD83 (2011 ADJUSTMENT), EAST ZONE.
- IRON PIPE OR ROD FOUND
  - ⊕ \*MAG\* NAIL SET
  - ⊕ CUT CROSS FOUND OR SET
  - 5/8" REBAR SET
  - STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
  - M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
  - ⊙ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
  - RIGHT OF WAY STAKING PROPOSED TO BE SET
- NOTES:
- ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.
  - BEARINGS AND DISTANCES SHOWN HEREON ARE ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) "GRID".
  - ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND". TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES BY THE COMBINATION FACTOR OF 0.99993908.
  - AREAS SHOWN ON THIS PLAT ARE GROUND.
  - SEE SHEET 5 OF 5 FOR ADDITIONAL PROPOSED CENTERLINE ALIGNMENT AND TOTAL HOLDING INFORMATION.

STATE OF ILLINOIS )  
  )SS  
COUNTY OF COOK )

THIS IS TO CERTIFY THAT WE, MACKIE CONSULTANTS, LLC, AN ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-002694, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 34, TOWNSHIP 43 NORTH, RANGE 6 EAST OF THE THIRD PRINCIPAL MERIDIAN, MCHENRY COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT ROSEMONT, ILLINOIS THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_ A.D.

DALE A. GRAY  
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003057  
LICENSE EXPIRES: NOVEMBER 30, 2018  
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.



**PLAT OF HIGHWAYS**  
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**  
**U.S. ROUTE 20**

LIMITS: AT HARMONY ROAD COUNTY: MCHENRY  
SECTION: STA. 501+00 TO STA. 510+92 JOB NO.: R-91-013-12  
SCALE: 1" = 50' SHEET 4 OF 5 SHEETS

**BUREAU OF LAND ACQUISITION**  
**201 WEST CENTER COURT**  
**SCHAUMBURG, ILLINOIS 60196**

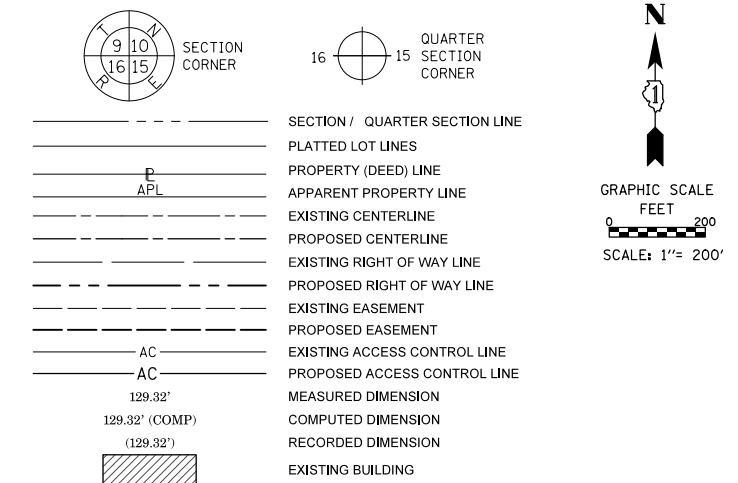
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PART OF THE NORTHWEST & SOUTHWEST QUARTER OF SECTION 34 TWP. 43 N., R. 6 E. OF THE 3RD. P.M., IN MCHENRY COUNTY, ILLINOIS.

**LEGEND**



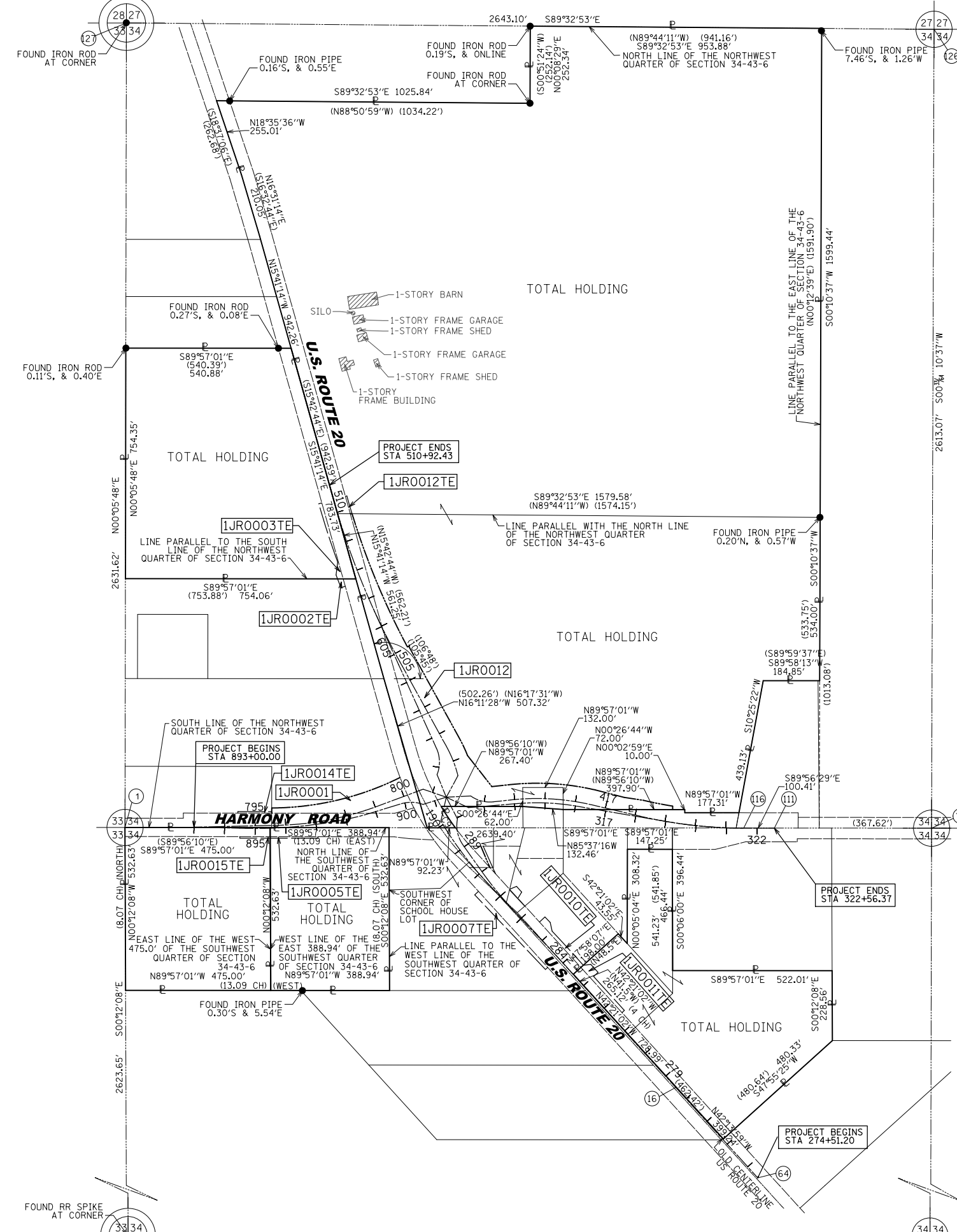
|          |          |
|----------|----------|
| BY       | GKF      |
| DATE     | 03-17-16 |
|          | SMC      |
|          | DAG      |
|          | 03-17-16 |
|          | GKF      |
|          | 12-08-16 |
| DRAWN    |          |
| APPROVED |          |
| REVISED  |          |

CURVE TABLE

| CURVE | RADIUS  | ARC LENGTH         | CHORD LENGTH | CHORD BEARING                |
|-------|---------|--------------------|--------------|------------------------------|
| C9    | 810.10' | 84.12'<br>(84.13') | 84.09'       | S33°35'57"E<br>(S33°35'03"E) |

PROJECT COORDINATES  
 ILLINOIS STATE PLANE, EAST ZONE, NAD 83 (2011)

| POINT | NORTHING      | EASTING     | STATION                | OFFSET |
|-------|---------------|-------------|------------------------|--------|
| 1     | 2,001,271.003 | 930,783.681 |                        |        |
| 16    | 2,000,420.518 | 932,585.965 | 278+50.44              | 0.00   |
| 64    | 2,000,124.911 | 932,854.316 | 274+51.20              | 0.00   |
| 75    | 2,001,268.716 | 933,423.08  |                        |        |
| 111   | 2,001,268.716 | 932,908.503 | 322+56.37<br>422+58.97 | 0.00   |
| 116   | 2,001,268.819 | 932,808.090 | 321+55.96<br>421+58.56 | 0.00   |
| 126   | 2,003,881.773 | 933,431.146 |                        |        |
| 127   | 2,003,902.617 | 930,788.127 |                        |        |
| 128   | 1,998,647.373 | 930,792.946 |                        |        |



STATE OF ILLINOIS )  
 )SS  
 COUNTY OF COOK )

THIS IS TO CERTIFY THAT WE, MACKIE CONSULTANTS, LLC, AN ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-002694, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 34, TOWNSHIP 43 NORTH, RANGE 6 EAST OF THE THIRD PRINCIPAL MERIDIAN, MCHENRY COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT ROSEMONT, ILLINOIS THIS \_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_ A.D.

DALE A. GRAY  
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003057  
 LICENSE EXPIRES: NOVEMBER 30, 2018  
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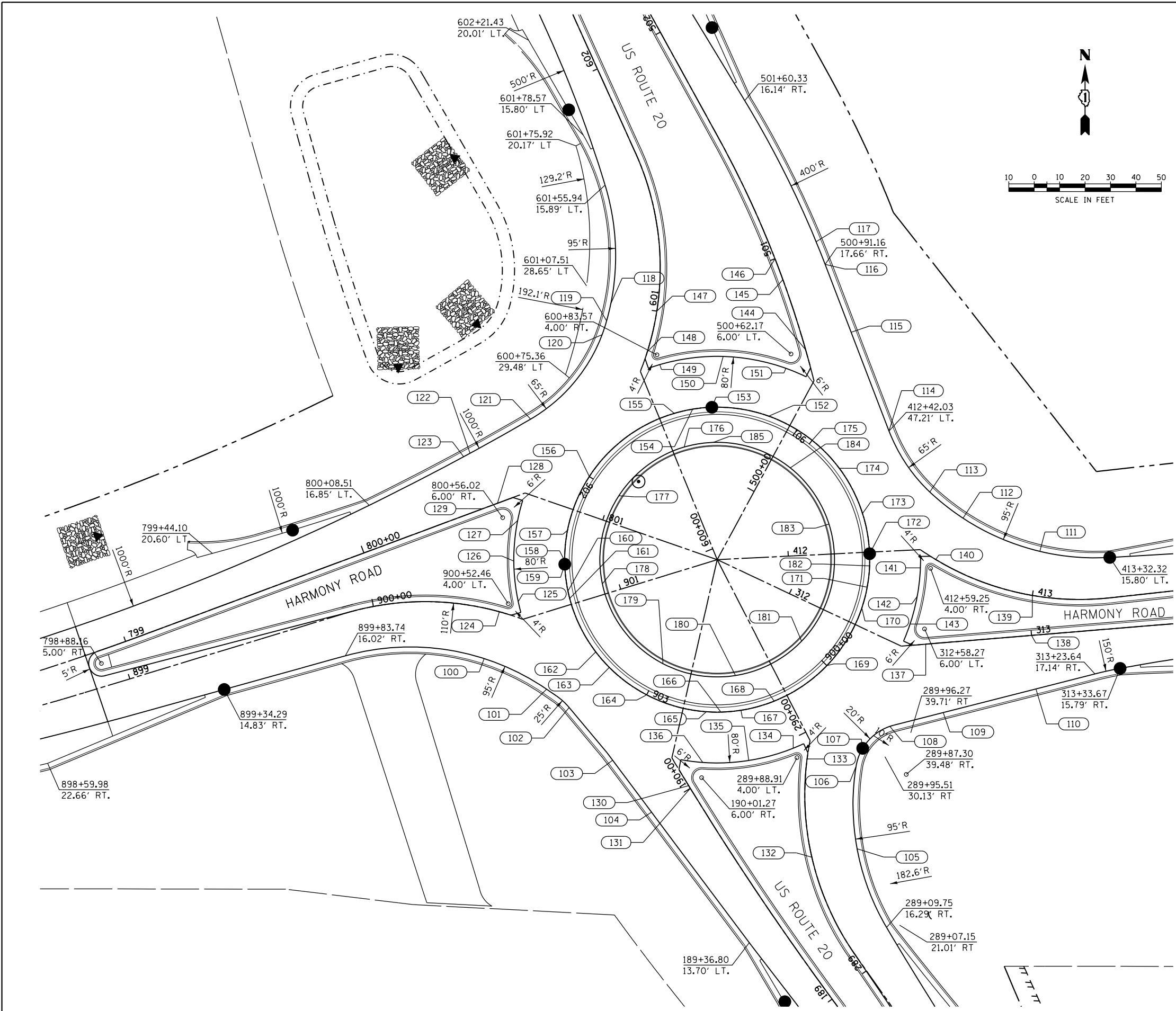
**Mackie Consultants, LLC**  
 9575 W. Higgins Road, Suite 500  
 Rosemont, IL 60018  
 (847)696-1400  
 www.mackieconsult.com

**PLAT OF HIGHWAYS**  
 STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 U.S. ROUTE 20

LIMITS: AT HARMONY ROAD COUNTY: MCHENRY  
 SECTION: STA. N/A TO STA. N/A JOB NO.: R-91-013-12  
 SCALE: 1" = 200' SHEET 5 OF 5 SHEETS

**BUREAU OF LAND ACQUISITION**  
 201 WEST CENTER COURT  
 SCHAUMBURG, ILLINOIS 60196

REVISION DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_ REVISION MADE BY: \_\_\_\_\_



| POINT | NORTH        | EAST        | OFFSET   | ELEVATION | DESCRIPTION |
|-------|--------------|-------------|----------|-----------|-------------|
| 100   | 2001331.0390 | 931743.3973 | 19.38 RT | 925.66    | 900+50.0    |
| 101   | 2001318.9882 | 931767.9438 | 29.07 RT | 926.30    | PT          |
| 102   | 2001311.7611 | 931776.8518 | 38.59 RT | 926.42    | PT          |
| 103   | 2001294.0203 | 931791.7040 | 59.91 RT | 926.45    | 903+00.0    |
| 104   | 2001270.6250 | 931809.2139 | 17.91 LT | 926.41    | 190+00.0    |
| 105   | 2001256.2034 | 931890.0969 | 18.09 RT | 926.62    | 289+50.0    |
| 106   | 2001288.6522 | 931889.6998 | 19.50 RT | 926.92    | PT          |
| 107   | 2001295.7436 | 931892.2820 | 20.91 RT | 926.40    | CB          |
| 108   | 2001304.8582 | 931904.5072 | 31.22 RT | 926.45    | 900+00.0    |
| 109   | 2001309.8187 | 931923.9714 | 27.39 RT | 926.58    | 312+58.3    |
| 110   | 2001319.1109 | 931960.4332 | 21.13 RT | 926.96    | 313+00.0    |
| 111   | 2001373.2505 | 931962.0110 | 17.60 LT | 926.74    | 413+00.0    |
| 112   | 2001386.3031 | 931931.7593 | 19.48 LT | 925.88    | 412+59.3    |
| 113   | 2001396.6104 | 931918.7274 | 22.98 LT | 925.70    | PC          |
| 114   | 2001420.5948 | 931902.6639 | 47.21 LT | 925.57    | PT          |
| 115   | 2001459.4438 | 931887.7648 | 19.11 RT | 924.91    | 500+62.2    |
| 116   | 2001486.1997 | 931877.5035 | 17.66 RT | 924.80    | PC          |
| 117   | 2001495.0726 | 931873.9786 | 17.50 RT | 924.73    | 501+00.0    |
| 118   | 2001470.5997 | 931793.1846 | 18.35 LT | 924.81    | 601+00.0    |
| 119   | 2001463.9448 | 931791.5763 | 18.65 LT | 924.88    | PC          |
| 120   | 2001458.4968 | 931789.7871 | 18.97 LT | 924.95    | 600+84.9    |
| 121   | 2001425.2867 | 931761.6539 | 29.17 LT | 925.42    | PT          |
| 122   | 2001411.8628 | 931737.8175 | 22.23 LT | 925.31    | 800+52.8    |
| 123   | 2001410.5052 | 931735.3193 | 21.83 LT | 925.30    | 800+50.0    |
| 124   | 2001349.5016 | 931749.3510 | 0.00     | 925.96    | 900+50.0    |
| 125   | 2001353.4791 | 931756.7747 | 5.97 LT  | 926.10    | PT          |
| 126   | 2001369.4122 | 931755.0565 | 23.57 RT | 925.98    | MID         |
| 127   | 2001385.3681 | 931756.5484 | 9.13 RT  | 925.86    | PC          |
| 128   | 2001392.1458 | 931748.5688 | 0.00     | 925.65    | PT          |
| 129   | 2001390.0478 | 931742.9279 | 0.00     | 925.44    | 800+50.0    |
| 130   | 2001281.0672 | 931823.8243 | 0.00     | 926.67    | PT          |
| 131   | 2001279.9865 | 931824.4860 | 0.00     | 926.70    | 190+00.0    |
| 132   | 2001252.8919 | 931872.2907 | 0.00     | 926.90    | 289+50.0    |
| 133   | 2001291.5546 | 931870.4145 | 0.00     | 926.68    | PC          |
| 134   | 2001295.7768 | 931864.9525 | 6.01 LT  | 926.68    | PT          |
| 135   | 2001290.9508 | 931847.4800 | 25.33 RT | 926.74    | MID         |
| 136   | 2001290.1822 | 931829.3695 | 9.48 RT  | 926.74    | PC          |
| 137   | 2001336.7362 | 931917.1115 | 0.00     | 926.45    | PT          |
| 138   | 2001340.1654 | 931958.6970 | 0.00     | 927.28    | 313+00.0    |
| 139   | 2001355.9040 | 931959.0283 | 0.00     | 927.01    | 413+00.0    |
| 140   | 2001370.0068 | 931921.0446 | 0.00     | 926.17    | PC          |
| 141   | 2001366.7395 | 931914.9888 | 5.97 RT  | 926.05    | PT          |
| 142   | 2001355.5353 | 931913.7396 | 19.01 LT | 926.13    | MID         |
| 143   | 2001344.6181 | 931910.9279 | 8.36 LT  | 926.21    | PC          |
| 144   | 2001452.5751 | 931869.8547 | 0.00     | 925.20    | PT          |
| 145   | 2001480.1475 | 931860.9138 | 0.00     | 925.06    | PC          |
| 146   | 2001488.4177 | 931857.7927 | 0.00     | 925.00    | 501+00.0    |
| 147   | 2001467.7557 | 931811.3118 | 0.00     | 925.08    | 601+00.0    |
| 148   | 2001451.7760 | 931807.5653 | 0.00     | 925.23    | PC          |
| 149   | 2001446.7371 | 931812.5081 | 6.28 RT  | 925.28    | PT          |
| 150   | 2001449.9456 | 931837.3987 | 31.88    | 925.13    | MID         |
| 151   | 2001445.2845 | 931862.0587 | 9.46 LT  | 925.22    | PC          |
| 152   | 2001426.4583 | 931855.3076 | 0.00     | 925.20    | 901+79.7    |
| 153   | 2001429.9440 | 931832.9756 | 0.00     | 924.94    | LP          |
| 154   | 2001429.2015 | 931825.4210 | 0.00     | 925.13    | 901+50.0    |
| 155   | 2001427.5478 | 931818.1447 | 0.00     | 925.16    | 901+57.5    |
| 156   | 2001406.0869 | 931787.1349 | 0.00     | 925.51    | 902+00.0    |
| 157   | 2001381.5211 | 931776.1749 | 0.00     | 925.74    | 902+23.0    |
| 158   | 2001369.5541 | 931775.0560 | 0.00     | 925.88    | 902+35.0    |
| 159   | 2001368.1745 | 931775.0803 | 0.00     | 925.86    | CB          |
| 160   | 2001357.6043 | 931776.3447 | 0.00     | 926.00    | 903+47.0    |
| 161   | 2001354.7262 | 931777.0258 | 0.00     | 926.01    | 902+50.0    |
| 162   | 2001333.6805 | 931787.2805 | 0.00     | 926.28    | 902+73.6    |
| 163   | 2001327.5477 | 931792.6340 | 0.00     | 926.33    | 802+81.7    |
| 164   | 2001317.8691 | 931805.3146 | 0.00     | 926.51    | 903+00.0    |
| 165   | 2001310.1317 | 931830.7907 | 0.00     | 926.62    | 903+24.6    |
| 166   | 2001309.9975 | 931836.5033 | 0.00     | 926.63    | HP          |
| 167   | 2001310.7081 | 931844.3736 | 0.00     | 926.62    | 903+38.2    |
| 168   | 2001314.3277 | 931857.4780 | 0.00     | 926.56    | 903+51.8    |
| 169   | 2001328.9402 | 931878.8236 | 0.00     | 926.36    | 900+00.0    |
| 170   | 2001359.1465 | 931894.0683 | 0.00     | 926.09    | 900+26.7    |
| 171   | 2001359.1465 | 931894.0683 | 0.00     | 926.01    | 900+35.2    |
| 172   | 2001372.3294 | 931895.0070 | 0.00     | 925.85    | CB          |
| 173   | 2001388.1766 | 931892.2285 | 0.00     | 925.71    | 900+64.6    |
| 174   | 2001405.9380 | 931883.0859 | 0.00     | 925.52    | 900+84.6    |
| 175   | 2001416.9317 | 931872.4113 | 0.00     | 925.36    | 901+00.0    |
| 176   | 2001414.2700 | 931822.0449 | 4.70 RT  | 925.35    | 901+57.5    |
| 177   | 2001397.7590 | 931798.1874 | 14.16 LT | 925.73    | 902+00.0    |
| 178   | 2001360.4587 | 931789.8859 | 4.14 LT  | 926.23    | 902+50.0    |
| 179   | 2001329.8883 | 931812.1740 | 13.37 LT | 926.73    | 903+00.0    |
| 180   | 2001324.3790 | 931842.2242 | 17.15 RT | 926.84    | 903+38.2    |
| 181   | 2001337.9135 | 931868.2599 | 14.89 RT | 926.58    | 900+00.0    |
| 182   | 2001367.5496 | 931895.0052 | 0.00     | 925.93    | 900+43.6    |
| 183   | 2001383.9796 | 931879.0416 | 11.80 LT | 925.93    | 900+64.6    |
| 184   | 2001406.1024 | 931863.7951 | 8.08 RT  | 925.58    | 901+00.0    |
| 185   | 2001416.1213 | 931836.4071 | 20.77 LT | 925.35    | 901+42.4    |

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: bhartma  
 DATE PLOTTED: 3/29/2018 9:18:14 AM  
 FILE NAME: D:\60701\ent\ntpln-01.dgn  
 PLOT DRIVER: ILpdf.plt  
 PLOT TABLE: plot.tbl



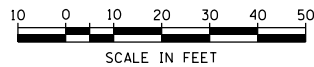
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| PLOT SCALE = 1" = 20'                 | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                 | DATE - 3/29/18 | REVISED - |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**INTERSECTION GEOMETRIC PLAN  
 US-20 AT HARMONY ROAD**

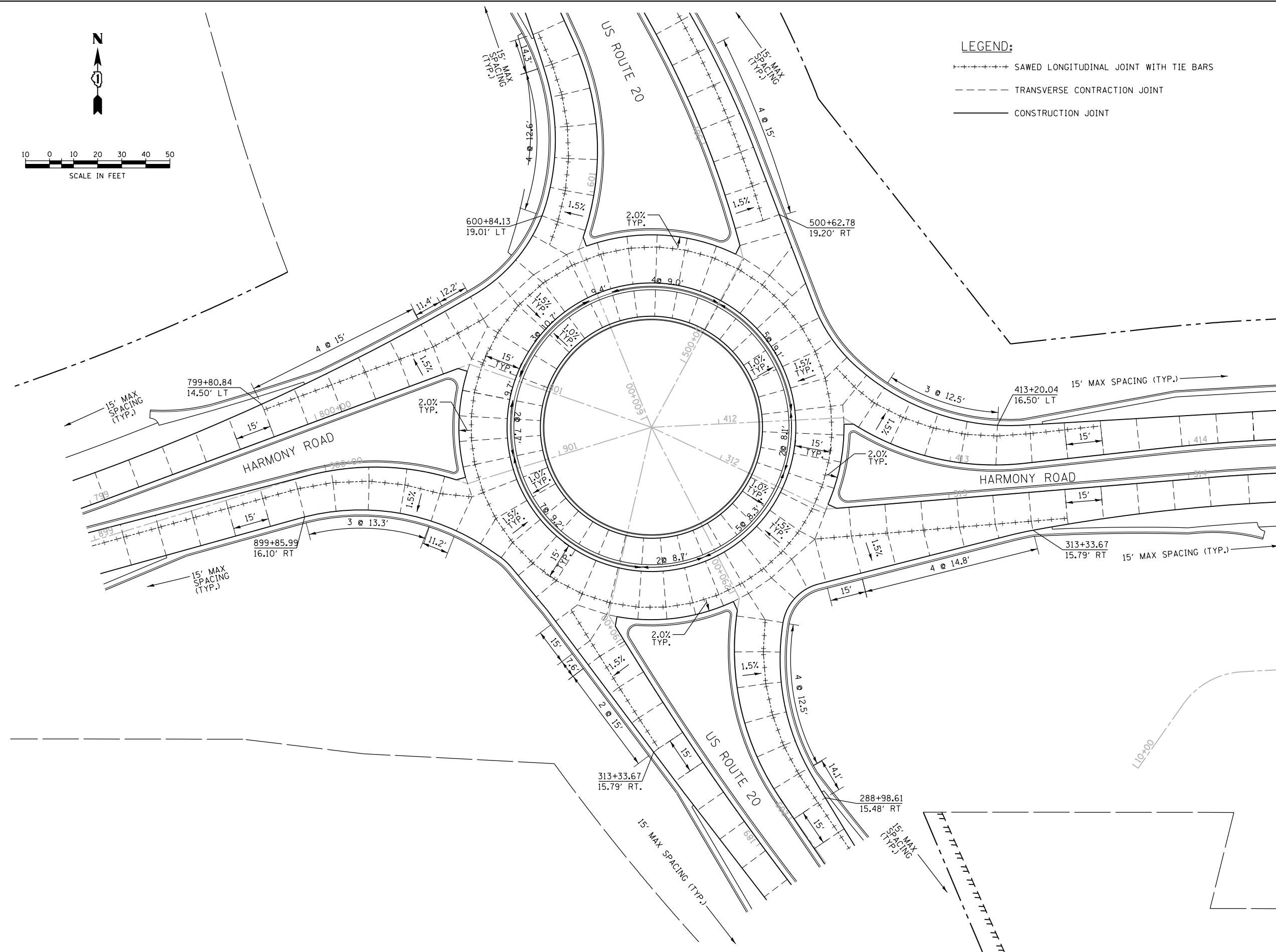
SCALE: 1" = 20'     SHEET NO. 1 OF 1 SHEETS     STA.     TO STA.

| F.A.P. RTE.                                   | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO.          |
|---|---------|---------|--------------|--------------------|
| 525   | 11-N    | MCHENRY | 135          | 66                 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |         |         |              | CONTRACT NO. 60T01 |



**LEGEND:**

- +++++ SAWED LONGITUDINAL JOINT WITH TIE BARS
- TRANSVERSE CONTRACTION JOINT
- \_\_\_\_\_ CONSTRUCTION JOINT



COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: bhartma  
 DATE PLOTTED: 3/29/2018 9:18:23 AM  
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 PLOT DRIVER: ILpdf.plt  
 PEN TABLE: plot.tbl



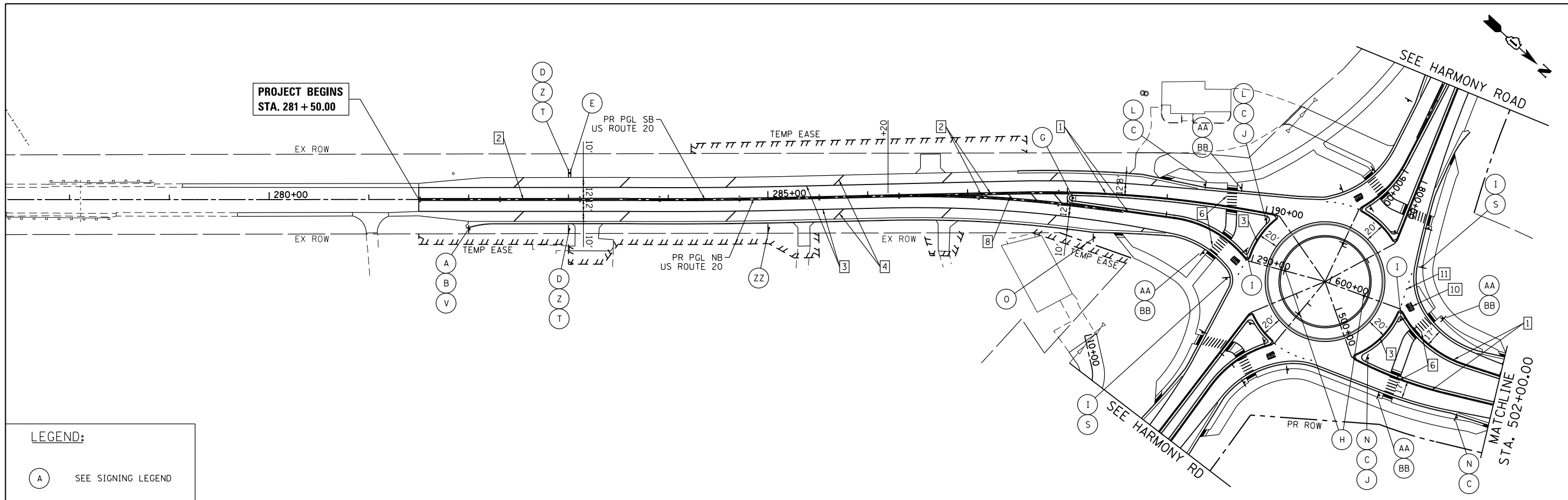
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|--|----------------|-----------|
| USER NAME = bhartma                    | DESIGNED - BH  | REVISED - |
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| PLOT SCALE = 1" = 20'                  | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                  | DATE - 3/29/18 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT JOINTING DETAILS  
US-20 AT HARMONY ROAD**

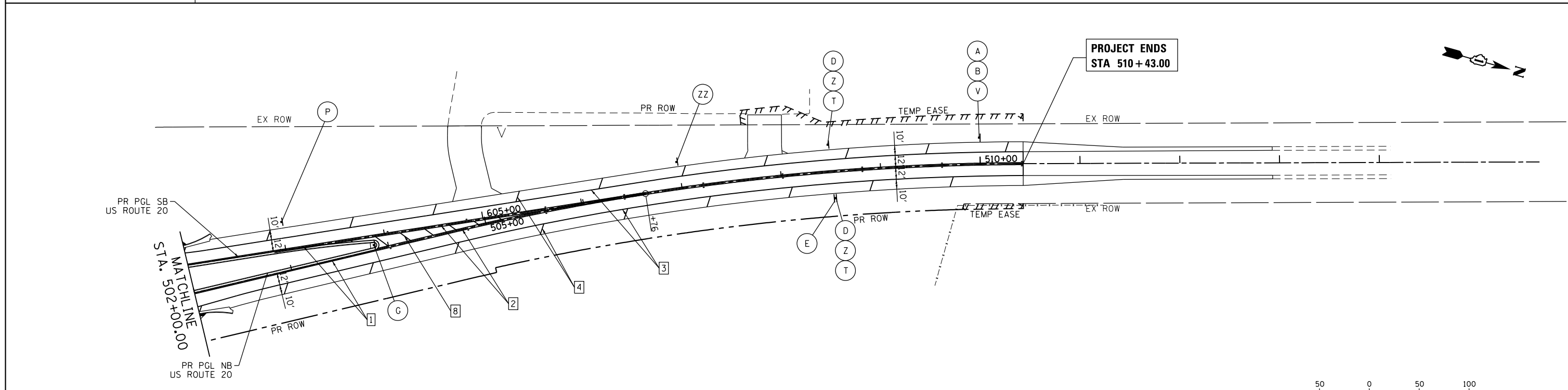
SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

| F.A.P. RTE.                                   | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---|---------|---------|--------------|-----------|
| 525   | 11-N    | MCHENRY | 135          | 67        |
| CONTRACT NO. 60T01                            |         |         |              |           |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |         |         |              |           |



**LEGEND:**

(A) SEE SIGNING LEGEND



- LEGEND:**
- |   |   |  |
|---|---|--|
| 1 LINE 4" (YELLOW SOLID LINE)                   | 5 LINE 12" (YELLOW SOLID LINE)                    | 10 LETTERS AND SYMBOLS (TYP.)                    |
| 2 LINE 4" (DOUBLE YELLOW SOLID LINES)           | 6 LINE 12" (WHITE SOLID LINE)                     | 11 LINE 24" (WHITE LANE LINE - 2' DASH, 2' SKIP) |
| 3 LINE 4" (WHITE SOLID LINE)                    | 7 LINE 12" (YELLOW DIAGONAL LINE @ 50° OR 5 MIN.) | 12 LINE 6" (WHITE SOLID LINE)                    |
| 4 LINE 12" (WHITE DIAGONAL LINE @ 45°, 75° C-C) | 8 LINE 12" (YELLOW DIAGONAL LINE @ 30°)           | 13 LINE 18" (WHITE - 3' DASH, 3' SKIP)           |
|   | 9 LINE 24" (WHITE LANE LINE - 2' DASH, 2' SKIP)   |  |

**NOTES:**

- ALL PAVEMENT MARKINGS HMA SHALL BE THERMOPLASTIC; ALL PAVEMENT MARKINGS ON PCC SHALL BE PREFORMED PLASTIC.
- RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE USED ALONG U.S. ROUTE 20. SEE DISTRICT DETAIL TC-11.
- RECESSED REFLECTIVE PAVEMENT MARKERS SHALL BE USED ALONG HARMONY ROAD.



COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: bhartma  
 DATE PLOTTED: 3/29/2018 9:18:32 AM  
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 PLOT DRIVER: ILpdf.plt  
 PEN TABLE: plot.tbl



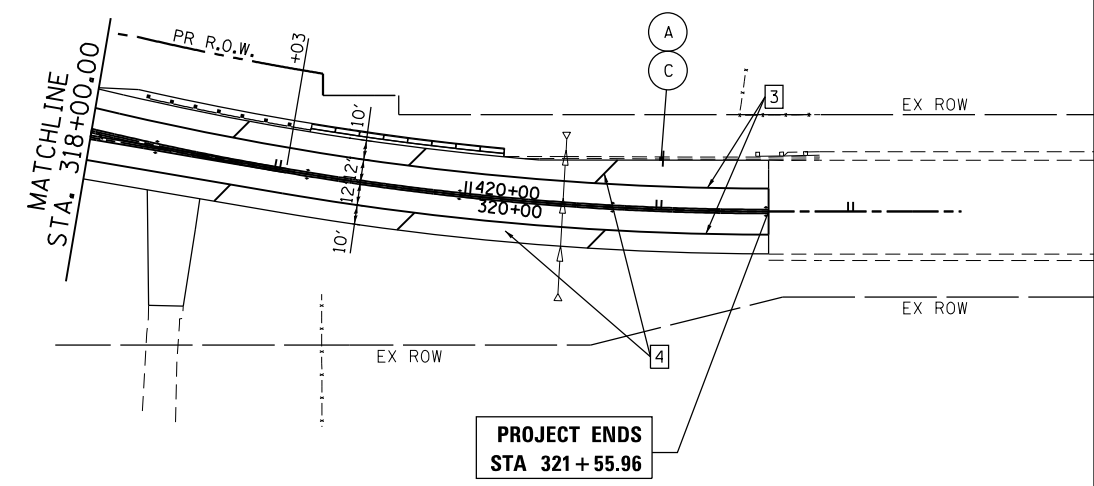
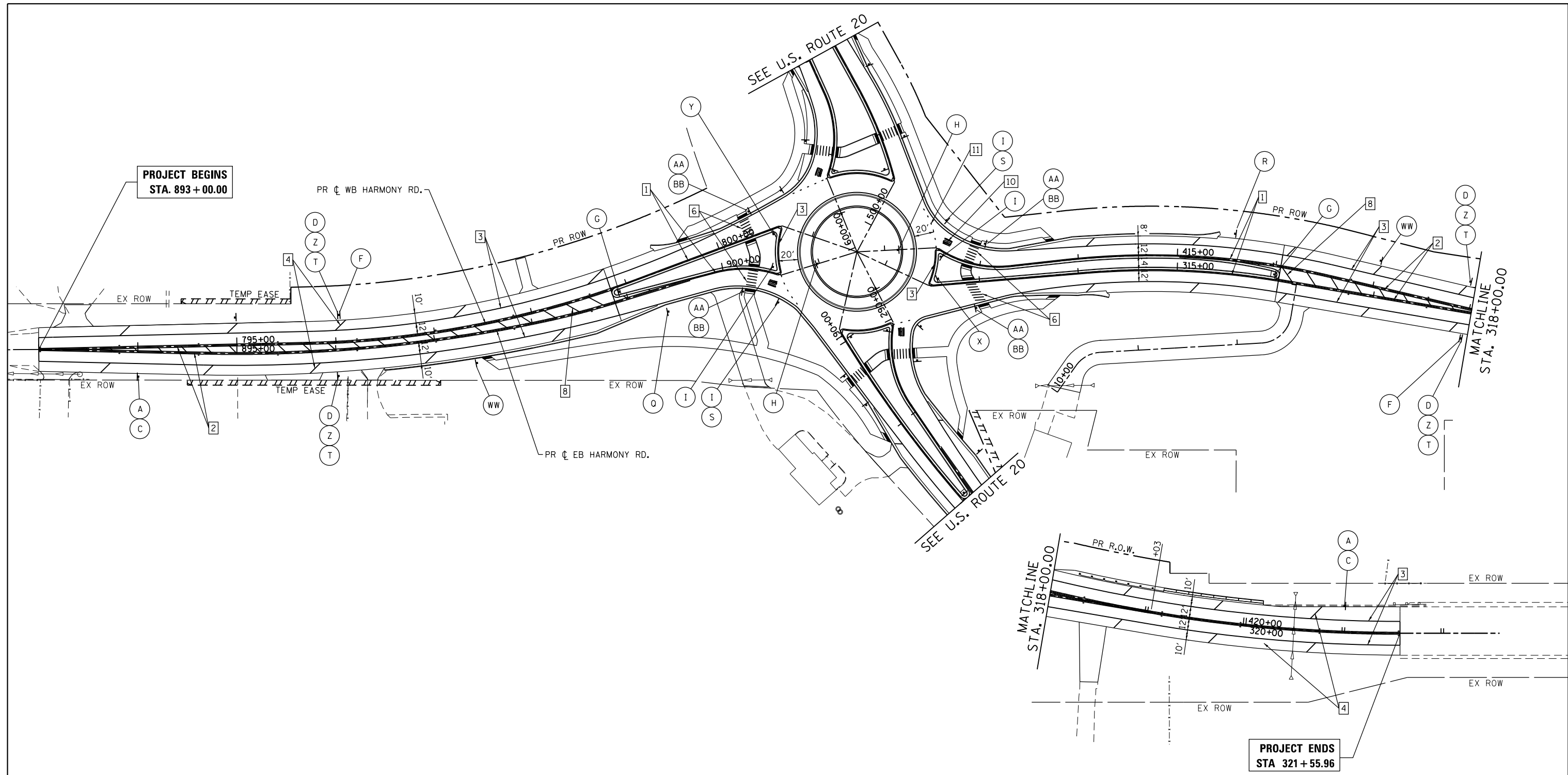
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|--------------------------------------|----------------|-----------|
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| PLOT SCALE = 1" = 50'                | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                | DATE - 3/29/18 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND SIGNING PLAN  
US ROUTE 20**

SCALE: 1" = 50'    SHEET NO. 1 OF 3 SHEETS    STA.    TO STA.

|  |         |         |              |           |
|--|---------|---------|--------------|-----------|
| F.A.P. RTE.                                      | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
| 525  | 11-N    | MCHENRY | 135          | 68        |
| CONTRACT NO. 60T01                               |         |         |              |           |
| FED. ROAD DIST. NO.    ILLINOIS FED. AID PROJECT |         |         |              |           |

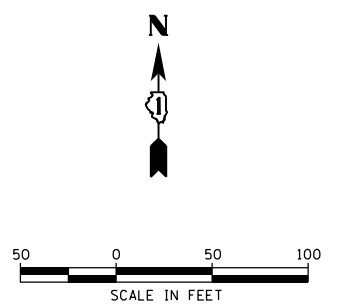


**LEGEND:**  
 (A) SEE SIGNING LEGEND

| LEGEND: |   | LEGEND: |   | LEGEND: |   |
|---------|---|---------|---|---------|---|
| 1       | LINE 4" (YELLOW SOLID LINE)                   | 5       | LINE 12" (YELLOW SOLID LINE)                    | 10      | LETTERS AND SYMBOLS (TYP.)                    |
| 2       | LINE 4" (DOUBLE YELLOW SOLID LINES)           | 6       | LINE 12" (WHITE SOLID LINE)                     | 11      | LINE 24" (WHITE LANE LINE - 2' DASH, 2' SKIP) |
| 3       | LINE 4" (WHITE SOLID LINE)                    | 7       | LINE 12" (YELLOW DIAGONAL LINE @ 50° OR 5 MIN.) | 12      | LINE 6" (WHITE SOLID LINE)                    |
| 4       | LINE 12" (WHITE DIAGONAL LINE @ 45°, 75° C-C) | 8       | LINE 12" (YELLOW DIAGONAL LINE @ 30°)           | 13      | LINE 18" (WHITE - 3' DASH, 3' SKIP)           |
|         |   | 9       | LINE 24" (WHITE LANE LINE - 2' DASH, 2' SKIP)   |         |   |

**NOTES:**

- ALL PAVEMENT MARKINGS HMA SHALL BE THERMOPLASTIC; ALL PAVEMENT MARKINGS ON PCC SHALL BE PREFORMED PLASTIC.
- RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE USED ALONG U.S. ROUTE 20. SEE DISTRICT DETAIL TC-11.
- RECESSED REFLECTIVE PAVEMENT MARKERS SHALL BE USED ALONG HARMONY ROAD.



COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: bhartma  
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 PLOT DRIVER: ILpdf.plt  
 PEN TABLE: plot.tbl



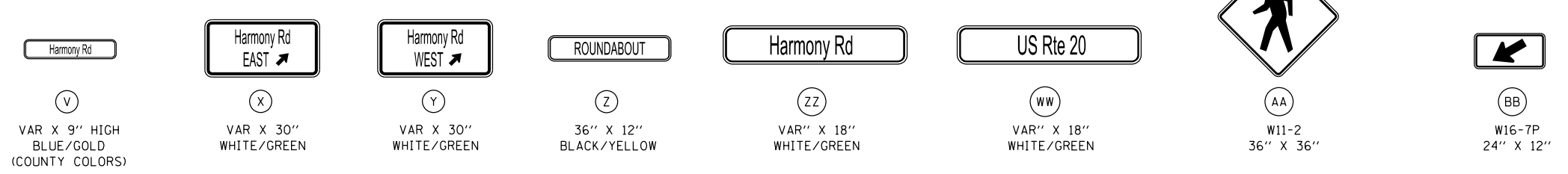
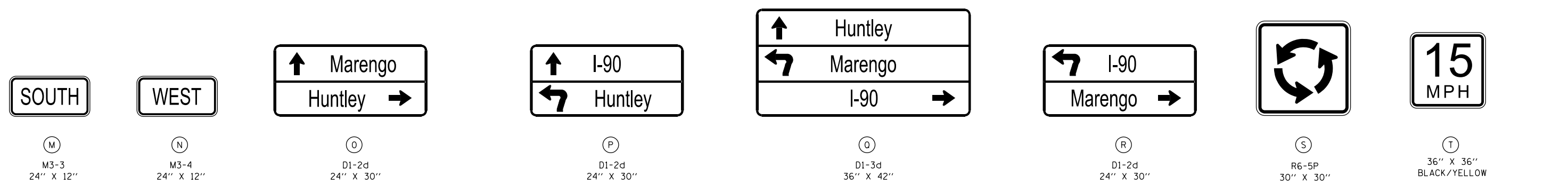
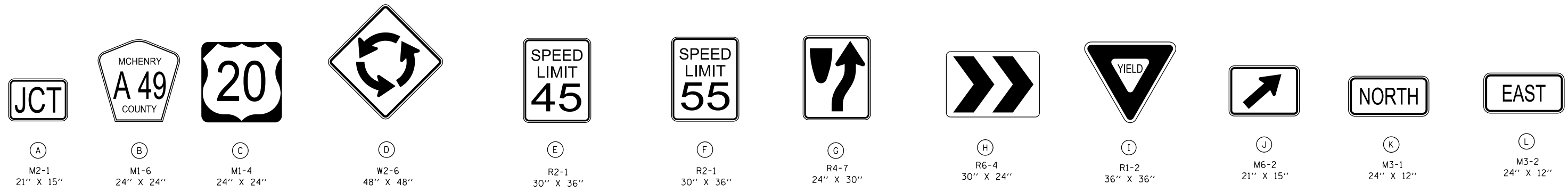
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| PLOT SCALE = 1" = 50'                | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                | DATE - 3/29/18 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND SIGNING PLAN  
HARMONY ROAD**

SCALE: 1" = 50' SHEET NO. 2 OF 3 SHEETS STA. TO STA.

|   |              |                |                  |              |
|---|--------------|----------------|------------------|--------------|
| F.A.P. RTE. 525                               | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135 | SHEET NO. 69 |
| CONTRACT NO. 60101                            |              |                |                  |              |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |              |                |                  |              |



**PROPOSED SIGN SCHEDULE**

| SIGN DESIGNATION | STATION  | OFFSET | DIRECTION | ROADWAY |
|------------------|----------|--------|-----------|---------|
| A, B, T          | 282+01.1 | 29.7   | RT        | US 20   |
| D, Z, T          | 283+01.0 | 29.7   | RT        | US 20   |
| D, Z, T          | 283+01.0 | 29.7   | LT        | US 21   |
| E                | 283+01.0 | 29.7   | LT        | US 20   |
| ZZ               | 285+00.0 | 29.8   | RT        | US 20   |
| G                | 288+05.4 | 7.1    | LT        | US 20   |
| O                | 288+31.0 | 29.7   | RT        | US 20   |
| L, C             | 289+26.9 | 42.8   | LT        | US 20   |
| AA, BB           | 289+51.8 | 50.9   | LT        | US 20   |
| AA, BB           | 289+52.8 | 24.6   | RT        | US 20   |
| I, S             | 289+96.3 | 28.1   | RT        | US 20   |
| I                | 289+87.6 | 4.8    | LT        | US 20   |
| L, C, J          | 289+79.6 | 40.7   | LT        | US 20   |
| H                | 290+35.0 | 0.2    | RT        | US 20   |
| H                | 499+95.7 | 31.9   | LT        | US 20   |
| N, C, J          | 500+64.9 | 6.4    | LT        | US 20   |
| I                | 500+79.3 | 55.6   | LT        | US 20   |
| I, S             | 499+87.5 | 97.2   | LT        | US 20   |
| AA, BB           | 500+89.9 | 23.0   | RT        | US 20   |
| AA, BB           | 501+25.5 | 71.3   | LT        | US 20   |
| N, C             | 501+66.8 | 24.6   | RT        | US 20   |
| P                | 503+00.0 | 49.0   | LT        | US 20   |
| G                | 503+85.9 | 5.1    | LT        | US 20   |
| ZZ               | 506+98.0 | 26.9   | LT        | US 20   |
| E                | 508+52.5 | 26.9   | RT        | US 20   |
| D, Z, T          | 508+52.5 | 26.9   | RT        | US 20   |
| D, Z, T          | 508+48.8 | 27.3   | LT        | US 20   |
| A, B, V          | 509+99.2 | 26.5   | LT        | US 20   |

| SIGN DESIGNATION | STATION  | OFFSET | DIRECTION | ROADWAY |
|------------------|----------|--------|-----------|---------|
| A, C             | 894+01.2 | 25.2   | RT        | HARMONY |
| F                | 894+98.1 | 36.5   | LT        | HARMONY |
| D, Z, T          | 896+01.0 | 26.2   | RT        | HARMONY |
| D, Z, T          | 896+01.0 | 26.2   | LT        | HARMONY |
| O                | 897+48.4 | 29.5   | RT        | HARMONY |
| WW               | 897+40.0 | 30.1   | RT        | HARMONY |
| G                | 898+93.5 | 8.9    | LT        | HARMONY |
| AA, BB           | 900+20.5 | 23.6   | RT        | HARMONY |
| AA, BB           | 900+24.0 | 57.4   | LT        | HARMONY |
| I, S             | 900+59.7 | 27.8   | RT        | HARMONY |
| I                | 900+49.6 | 5.2    | LT        | HARMONY |
| Y                | 900+43.3 | 37.7   | LT        | HARMONY |
| H                | 900+98.0 | 0.1    | RT        | HARMONY |
| H                | 312+05.1 | 19.2   | LT        | HARMONY |
| X                | 312+58.6 | 6.1    | LT        | HARMONY |
| I                | 312+63.1 | 28.0   | LT        | HARMONY |
| I, S             | 312+71.7 | 64.0   | LT        | HARMONY |
| AA, BB           | 312+94.6 | 26.6   | RT        | HARMONY |
| AA, BB           | 313+08.5 | 37.4   | LT        | HARMONY |
| R                | 315+57.0 | 26.6   | LT        | HARMONY |
| G                | 315+97.6 | 5.1    | LT        | HARMONY |
| WW               | 317+01.0 | 36.8   | LT        | HARMONY |
| D, Z, T          | 317+93.8 | 27.2   | RT        | HARMONY |
| F                | 317+93.8 | 27.2   | RT        | HARMONY |
| D, Z, T          | 317+93.9 | 31.1   | LT        | HARMONY |
| A, C             | 320+98.9 | 26.4   | LT        | HARMONY |

COMPANY NAME: HRGreen  
 PROJECT CONTACT: bhartma  
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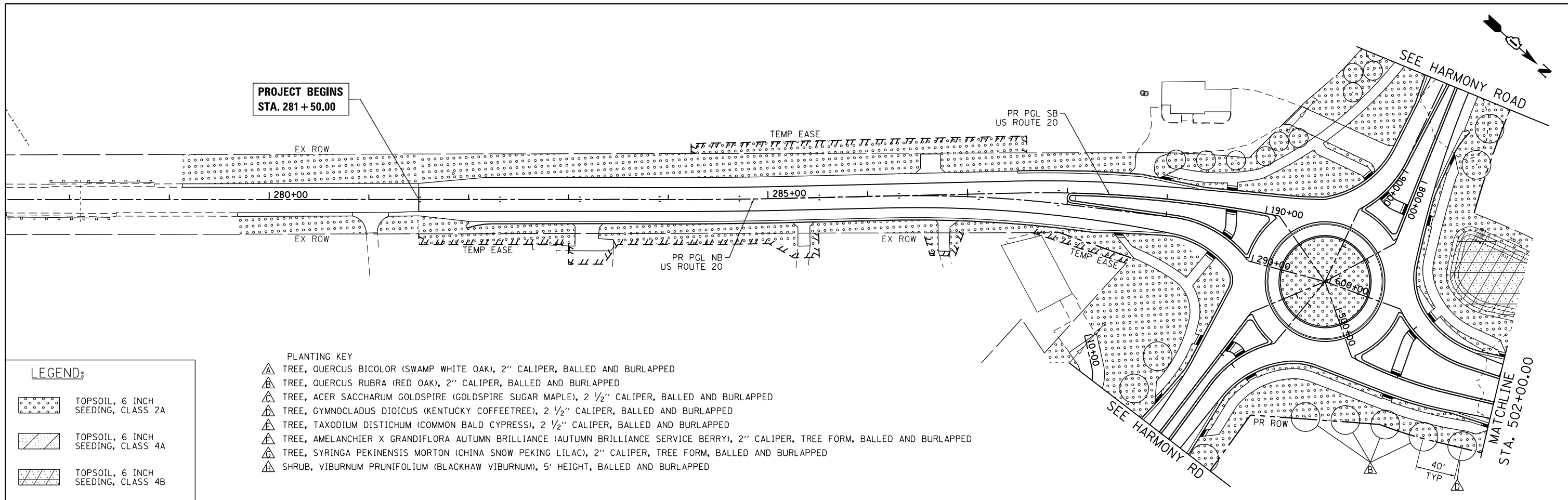
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| PLOT SCALE = NTS                    | CHECKED - -  | REVISED - -         |
| PLOT DATE = 5/7/2018                | DATE - -     | REVISED - -         |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND SIGNING PLAN  
 SIGNING LEGEND**

|   |              |                |                  |              |
|---|--------------|----------------|------------------|--------------|
| F.A.P. RTE. 525                               | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135 | SHEET NO. 70 |
| CONTRACT NO. 60T01                            |              |                |                  |              |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |              |                |                  |              |

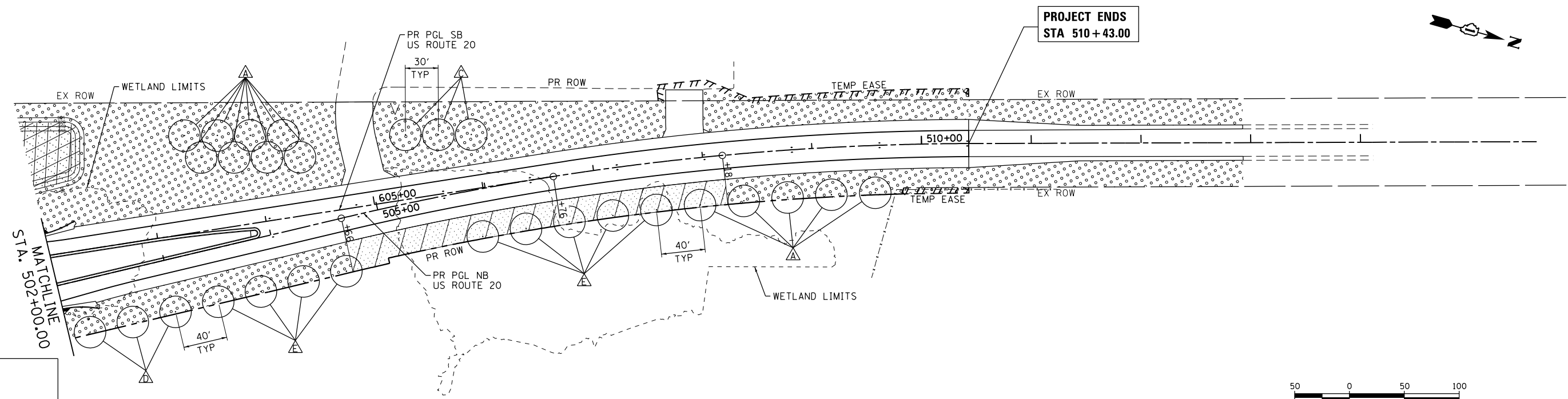
SCALE: NTS SHEET NO. 3 OF 3 SHEETS STA. TO STA.



**LEGEND:**

|  |                                   |
|--|-----------------------------------|
|  | TOPSOIL, 6 INCH SEEDING, CLASS 2A |
|  | TOPSOIL, 6 INCH SEEDING, CLASS 4A |
|  | TOPSOIL, 6 INCH SEEDING, CLASS 4B |

- PLANTING KEY**
- TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2" CALIPER, BALLED AND BURLAPPED
  - TREE, QUERCUS RUBRA (RED OAK), 2" CALIPER, BALLED AND BURLAPPED
  - TREE, ACER SACCHARUM GOLDSPIRE (GOLDSPIRE SUGAR MAPLE), 2 1/2" CALIPER, BALLED AND BURLAPPED
  - TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE), 2 1/2" CALIPER, BALLED AND BURLAPPED
  - TREE, TAXODIUM DISTICHUM (COMMON BALD CYPRESS), 2 1/2" CALIPER, BALLED AND BURLAPPED
  - TREE, AMELANCHIER X GRANDIFLORA AUTUMN BRILLIANCE (AUTUMN BRILLIANCE SERVICE BERRY), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED
  - TREE, SYRINGA PEKINENSIS MORTON (CHINA SNOW PEKING LILAC), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED
  - SHRUB, VIBURNUM PRUNIFOLIUM (BLACKHAW VIBURNUM), 5' HEIGHT, BALLED AND BURLAPPED



**LEGEND:**

|  |                                   |
|--|-----------------------------------|
|  | TOPSOIL, 6 INCH SEEDING, CLASS 2A |
|  | TOPSOIL, 6 INCH SEEDING, CLASS 4A |
|  | TOPSOIL, 6 INCH SEEDING, CLASS 4B |

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: bhartma  
 DATE PLOTTED: 3/29/2018 9:18:00 AM  
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 PLOT DRIVER: ILpdf.plt  
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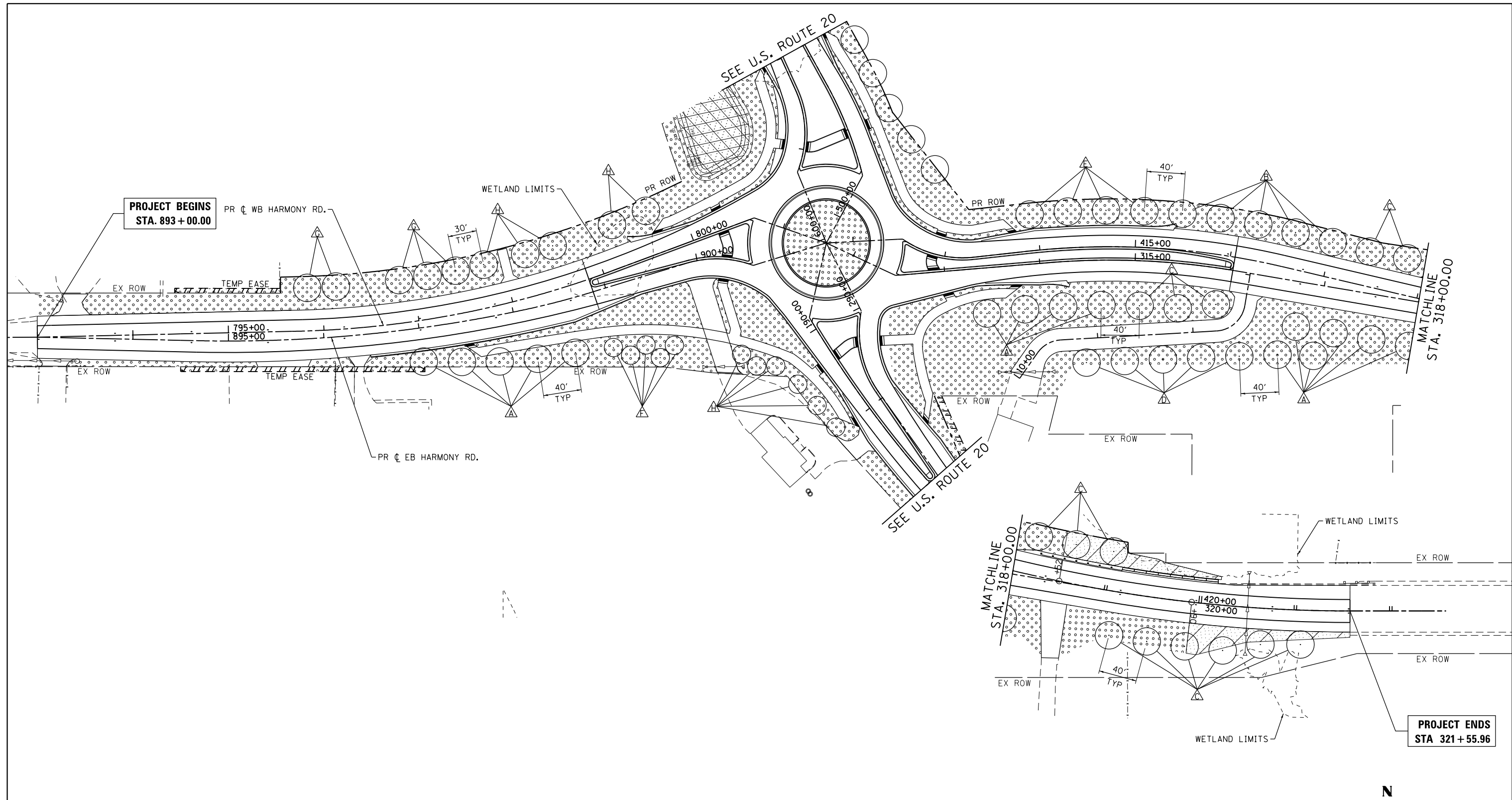
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| PLOT SCALE = 1" = 50'                  | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                  | DATE - 3/29/18 | REVISED - |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN  
 US ROUTE 20**

SCALE: 1" = 50'    SHEET NO. 1 OF 2 SHEETS    STA.    TO STA.

|  |         |         |              |           |
|--|---------|---------|--------------|-----------|
| F.A.P. RTE.                                      | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
| 525  | 11-N    | MCHENRY | 135          | 71        |
| CONTRACT NO. 60T01                               |         |         |              |           |
| FED. ROAD DIST. NO.    ILLINOIS FED. AID PROJECT |         |         |              |           |



**PROJECT BEGINS  
STA. 893 + 00.00**

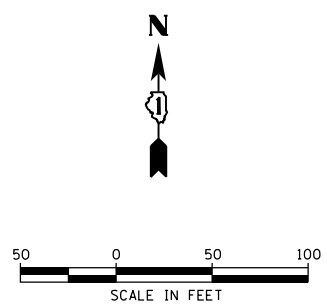
**MATCHLINE  
STA. 318+00.00**

**PROJECT ENDS  
STA 321 + 55.96**

**LEGEND:**

|  |                                   |
|--|-----------------------------------|
|  | TOPSOIL, 6 INCH SEEDING, CLASS 2A |
|  | TOPSOIL, 6 INCH SEEDING, CLASS 4A |
|  | TOPSOIL, 6 INCH SEEDING, CLASS 4B |

- PLANTING KEY**
- ▲ TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2" CALIPER, BALLED AND BURLAPPED
  - ▲ TREE, QUERCUS RUBRA (RED OAK), 2" CALIPER, BALLED AND BURLAPPED
  - ▲ TREE, ACER SACCHARUM GOLDSPIRE (GOLDSPIRE SUGAR MAPLE), 2 1/2" CALIPER, BALLED AND BURLAPPED
  - ▲ TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE), 2 1/2" CALIPER, BALLED AND BURLAPPED
  - ▲ TREE, TAXODIUM DISTICHUM (COMMON BALD CYPRESS), 2 1/2" CALIPER, BALLED AND BURLAPPED
  - ▲ TREE, AMELANCHIER X GRANDIFLORA AUTUMN BRILLIANCE (AUTUMN BRILLIANCE SERVICE BERRY), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED
  - ▲ TREE, SYRINGA PEKINENSIS MORTON (CHINA SNOW PEKING LILAC), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED
  - ▲ SHRUB, VIBURNUM PRUNIFOLIUM (BLACKHAW VIBURNUM), 5' HEIGHT, BALLED AND BURLAPPED



COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: PROJECT CONTACTS  
 DATE PLOTTED: 3/29/2018 9:18:07 AM  
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| FILE NAME = D:\60101-sht-landscp-02.dgn | DRAWN - DMS    | REVISED - |
| PLOT SCALE = 1" = 50'                   | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                   | DATE - 3/29/18 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN  
HARMONY ROAD**

SCALE: 1" = 50' SHEET NO. 2 OF 2 SHEETS STA. TO STA.

|   |              |                |                  |              |
|---|--------------|----------------|------------------|--------------|
| F.A.P. RTE. 525                               | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135 | SHEET NO. 72 |
| CONTRACT NO. 60T01                            |              |                |                  |              |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |              |                |                  |              |










**GENERAL NOTES:**

1. THIS PROJECT INCLUDES THE INSTALLATION OF A NEW LIGHTING SYSTEM AT THE ROUNDABOUT INTERSECTION OF US ROUTE 20 AND HARMONY ROAD. THE PROPOSED LIGHTING SHALL BE OWNED AND MAINTAINED BY IDOT, STATE OF ILLINOIS.
2. THE CONTRACTOR SHALL CONTACT THE ELECTRIC UTILITY COMPANY TO COORDINATE THE ELECTRIC SERVICE WORK. THE FIELD CONTACT PERSON IS MARGARET MCNAIR AT (815) 490-2287.
3. THE QUANTITIES OF RACEWAY WHEREVER INDICATED ON THESE PLANS ARE APPROXIMATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND SHALL INSTALL RACEWAYS IN COMPLETE COMPLIANCE WITH THE SPECIFIED REQUIREMENTS.
4. THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. TO LOCATE AND MARK/STAKE ALL UNDERGROUND UTILITIES.
5. THE CONTRACTOR SHALL VERIFY LOCATIONS OF UNDERGROUND/OVERHEAD UTILITIES PRIOR TO INSTALLATION OF LIGHT POLES AND CONDUITS. IF THERE IS A CONFLICT WITH THE LIGHT POLES/CONDUITS AS SHOWN ON PLANS, THE CONTRACTOR SHALL SUGGEST ALTERNATIVE LOCATIONS AND COORDINATE WITH THE ENGINEER PRIOR TO PERFORMING DIGGING WORK. IT SHALL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION ACTIVITIES.
6. THE CONTRACTOR SHALL TAKE CARE WHEN INSTALLING UNIT DUCT TO AVOID CONFLICTS WITH EXISTING UNDERGROUND UTILITIES AND TREES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE AS DETERMINED BY THE ENGINEER.
7. TRENCHES FOR LIGHTING RACEWAYS SHALL HAVE A MINIMUM DEPTH OF 30".
8. LIGHTING SYSTEM INSTALLATION SHALL CONFORM TO THE LATEST IDOT STANDARDS, NEC AND LOCAL CODES.
9. ALL ELECTRICAL EQUIPMENT AND PRODUCTS SHALL BE U/L LISTED AND LABELED.

**BILL OF MATERIALS**

| DESCRIPTION  | UNIT  | QUANTITY |
|--|-------|----------|
| ELECTRIC SERVICE INSTALLATION  | EACH  | 1        |
| ELECTRIC UTILITY SERVICE CONNECTION  | L SUM | 1        |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.   | FOOT  | 203      |
| UNIT DUCT, 600V, 3-1C NO. 4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE | FOOT  | 2300     |
| ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 1/0                             | FOOT  | 375      |
| LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 100AMP                                     | EACH  | 1        |
| LIGHT POLE, ALUMINUM, 40 FT. M.H., 12 FT. DAVIT ARM                                    | EACH  | 16       |
| LIGHT POLE FOUNDATION, 24" DIAMETER  | FOOT  | 160      |
| BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE                                | EACH  | 16       |
| LUMINAIRE, LED, HORIZONTAL MOUNT, TYPE C   | EACH  | 16       |
| LUMINAIRE, SAFETY CABLE ASSEMBLY   | EACH  | 9        |

**LEGEND**

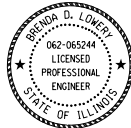
-  PROPOSED LIGHTING UNIT, 40' MH, 12' DAVIT ARM, 240V (LINE TO NEUTRAL), LED LUMINAIRE WITH BREAKAWAY DEVICE
-  UNIT DUCT, 600V, 3-1C NO. 4, 1/C NO. 6 GROUND (XLP-TYPE USE) 1 1/4" DIA. POLYETHYLENE
-  ComEd ELECTRIC SERVICE 240/480V, 1 PHASE 3 WIRE
-  PROPOSED LIGHTING CONTROLLER "LC" 240/480V, 3 WIRE, 100 AMP, BASE MOUNTED
-  RIGID GALVANIZED STEEL CONDUIT, UNDERGROUND
-  ELECTRIC CABLE IN CONDUIT 4" DIA., 3-1/C NO. 1/0
-  GROUND ROD 5/8" DIA. X 10 FT

**PROFESSIONAL ENGINEER'S SIGN & SEAL**

FOR SHEETS: 73 - 81

*Brenda D. Lowery*

BRENDA D LOWERY, P.E.  
EXPIRES 11-30-2019



FILE NAME = \$FILES

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Rd, Suite 4B  
Downers Grove, IL 60516

|                            |                 |           |
|----------------------------|-----------------|-----------|
| USER NAME = Srahman        | DESIGNED - BL   | REVISED - |
|                            | DRAWN - MD/SR   | REVISED - |
| PLOT SCALE = 100.00' / in. | CHECKED - MB    | REVISED - |
| PLOT DATE = 3/22/2018      | DATE - 02-27-18 | REVISED - |

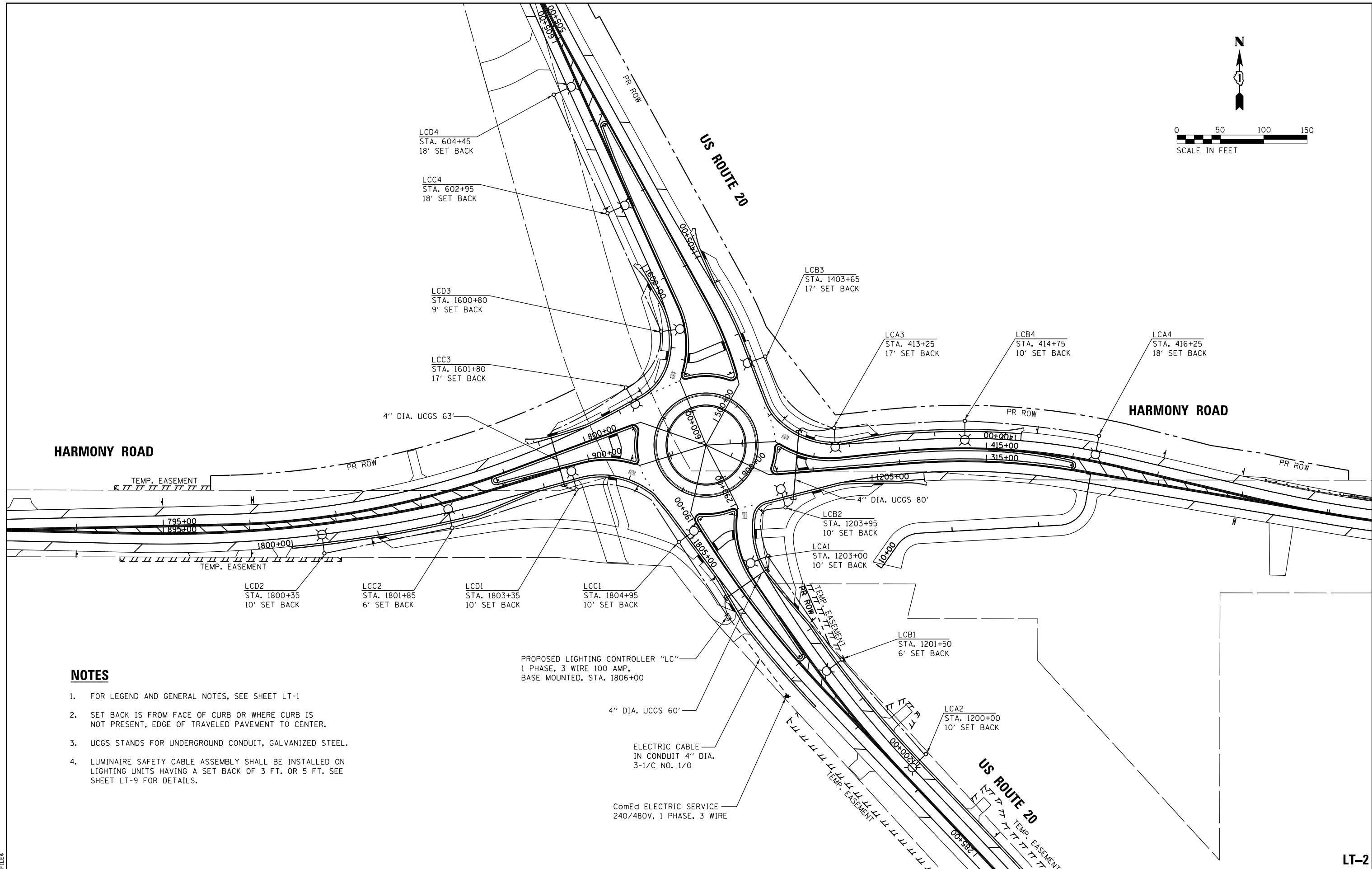
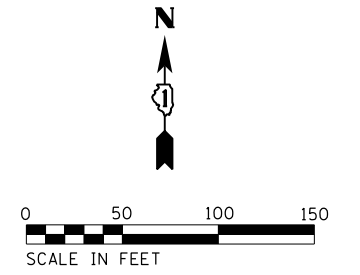
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, BILL OF MATERIALS AND LEGEND  
US ROUTE 20 AT HARMONY ROAD**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. N/A TO STA. N/A

| F.A. RTE.                 | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|---------|--------------|-----------|
| 525                       | 11-N    | McHENRY | 135          | 73        |
| <b>CONTRACT NO. 60T01</b> |         |         |              |           |
| ILLINOIS FED. AID PROJECT |         |         |              |           |

**LT-1**



**NOTES**

1. FOR LEGEND AND GENERAL NOTES, SEE SHEET LT-1
2. SET BACK IS FROM FACE OF CURB OR WHERE CURB IS NOT PRESENT, EDGE OF TRAVELED PAVEMENT TO CENTER.
3. UCGS STANDS FOR UNDERGROUND CONDUIT, GALVANIZED STEEL.
4. LUMINAIRE SAFETY CABLE ASSEMBLY SHALL BE INSTALLED ON LIGHTING UNITS HAVING A SET BACK OF 3 FT. OR 5 FT. SEE SHEET LT-9 FOR DETAILS.

PROPOSED LIGHTING CONTROLLER "LC"  
 1 PHASE, 3 WIRE 100 AMP,  
 BASE MOUNTED, STA. 1806+00

4" DIA. UCGS 60"

ELECTRIC CABLE  
 IN CONDUIT 4" DIA.  
 3-1/2 NO. 1/0

ComEd ELECTRIC SERVICE  
 240/480V, 1 PHASE, 3 WIRE

LT-2

AMES Engineering, Inc.  
 CONSULTING ENGINEERS  
 6330 Belmont Rd, Suite 4B  
 Downers Grove, IL 60516

|                    |               |           |
|--------------------|---------------|-----------|
| USER NAME = msomer | DESIGNED - BL | REVISED - |
| DRAWN - MD/SR      | REVISED -     |           |
| CHECKED - MB       | REVISED -     |           |
| DATE - 02-27-18    | REVISED -     |           |



STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN  
 US ROUTE 20 AT HARMONY ROAD  
 SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

|                           |         |         |              |           |
|---------------------------|---------|---------|--------------|-----------|
| F.A. RTE.                 | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
| 525                       | 11-N    | McHENRY | 135          | 74        |
| CONTRACT NO. 60T01        |         |         |              |           |
| ILLINOIS FED. AID PROJECT |         |         |              |           |

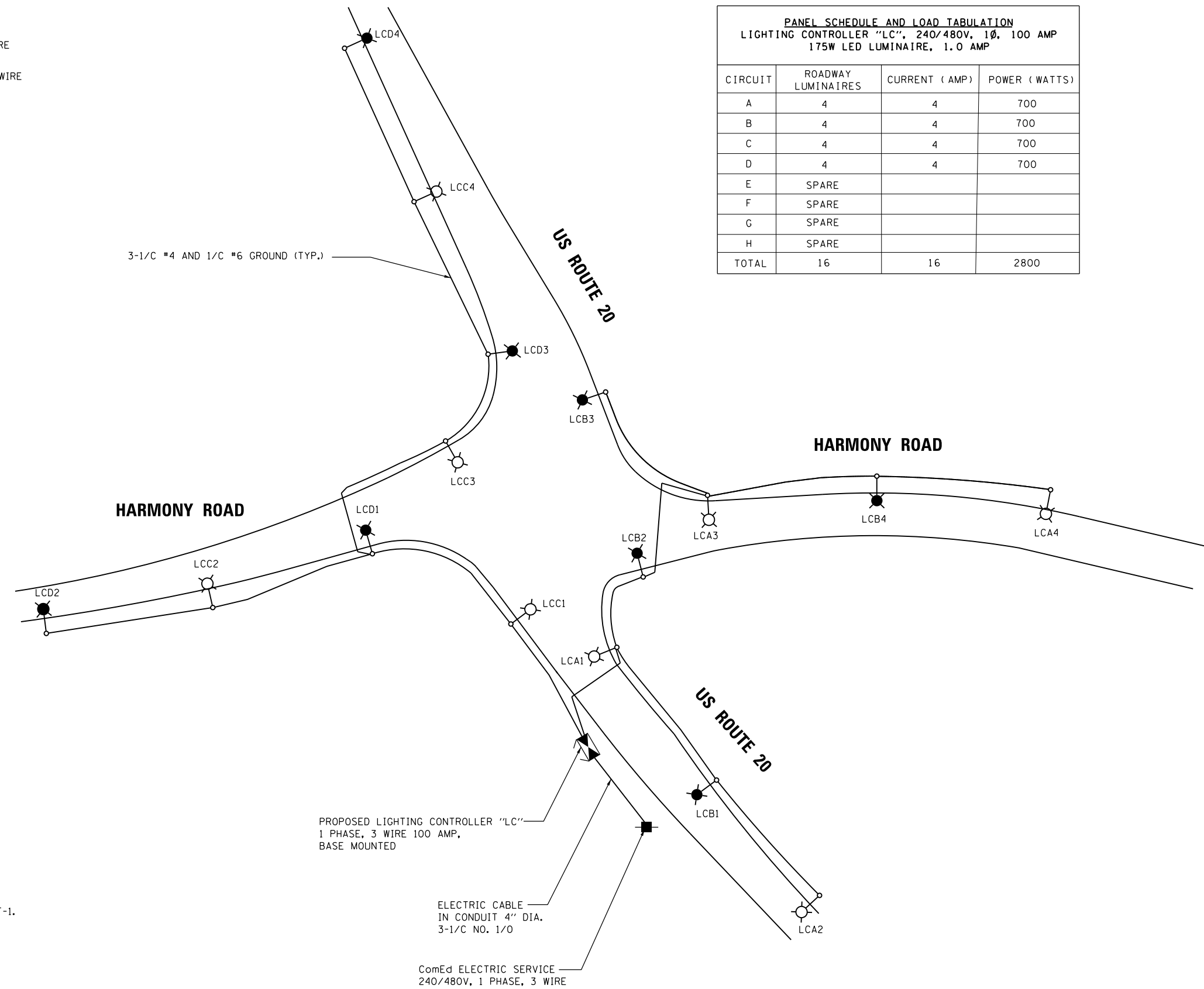
FILE NAME = SFILES

**LEGEND**

-  PROPOSED 240V, 175W LED LUMINAIRE ON RED WIRE
-  PROPOSED 240V, 175W LED LUMINAIRE ON BLACK WIRE

**PANEL SCHEDULE AND LOAD TABULATION**  
LIGHTING CONTROLLER "LC", 240/480V, 1Ø, 100 AMP  
175W LED LUMINAIRE, 1.0 AMP

| CIRCUIT | ROADWAY LUMINAIRES | CURRENT ( AMP ) | POWER ( WATTS ) |
|---------|--------------------|-----------------|-----------------|
| A       | 4                  | 4               | 700             |
| B       | 4                  | 4               | 700             |
| C       | 4                  | 4               | 700             |
| D       | 4                  | 4               | 700             |
| E       | SPARE              |                 |                 |
| F       | SPARE              |                 |                 |
| G       | SPARE              |                 |                 |
| H       | SPARE              |                 |                 |
| TOTAL   | 16                 | 16              | 2800            |



**NOTE**

1. FOR LEGEND AND GENERAL NOTES SEE SHEET LT-1.

FILE NAME = \$FILES

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
6330 Belmont Rd, Suite 4B  
Downers Grove, IL 60516

|                             |                 |           |
|-----------------------------|-----------------|-----------|
| USER NAME = msomer          | DESIGNED - BL   | REVISED - |
| DRAWN - MD/SR               | CHECKED - MB    | REVISED - |
| PLOT SCALE = 100.00' / 1" = | DATE - 02-27-18 | REVISED - |
| PLOT DATE = 2/27/2018       |                 |           |

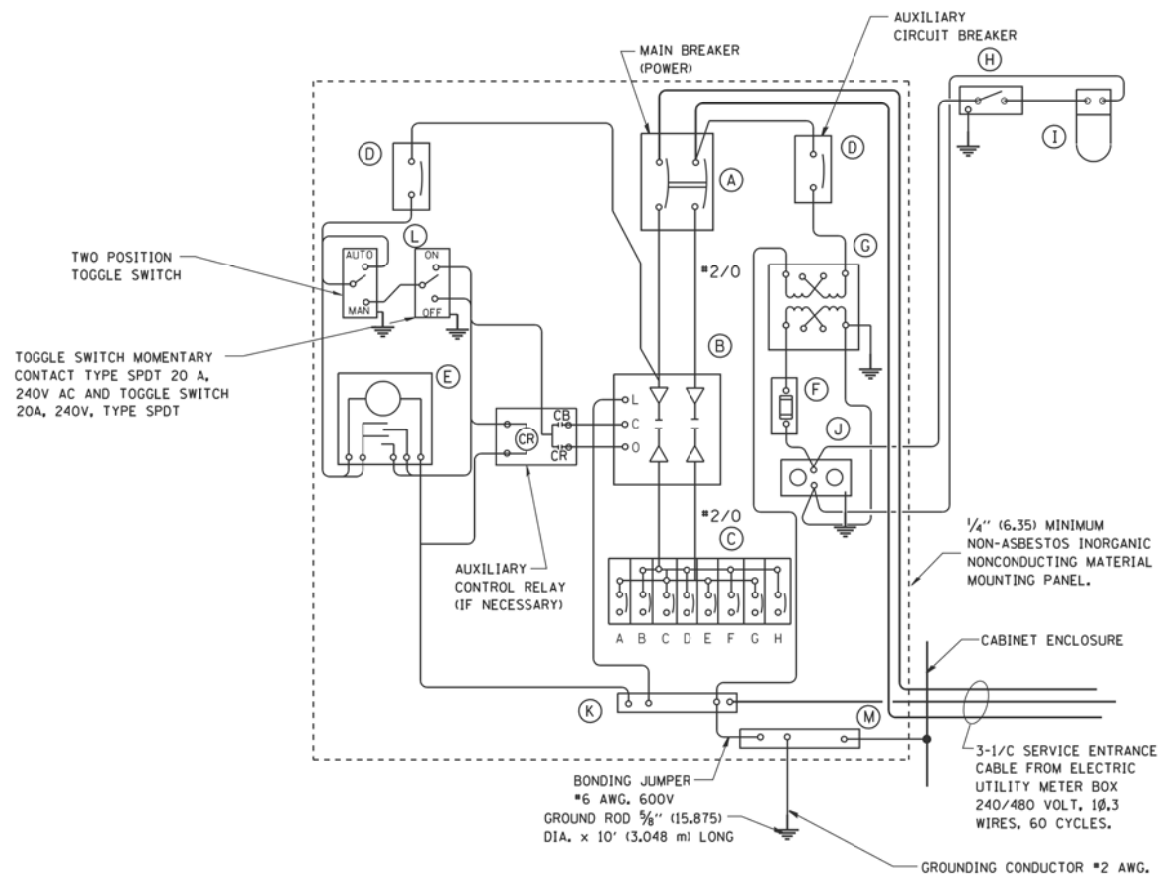
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SINGLE LINE WIRING DIAGRAM  
US ROUTE 20 AT HARMONY ROAD**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. N/A TO STA. N/A

|                           |         |         |              |           |
|---------------------------|---------|---------|--------------|-----------|
| F.A. RTE.                 | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
| 525                       | 11-N    | McHENRY | 135          | 75        |
| CONTRACT NO. 60T01        |         |         |              |           |
| ILLINOIS FED. AID PROJECT |         |         |              |           |

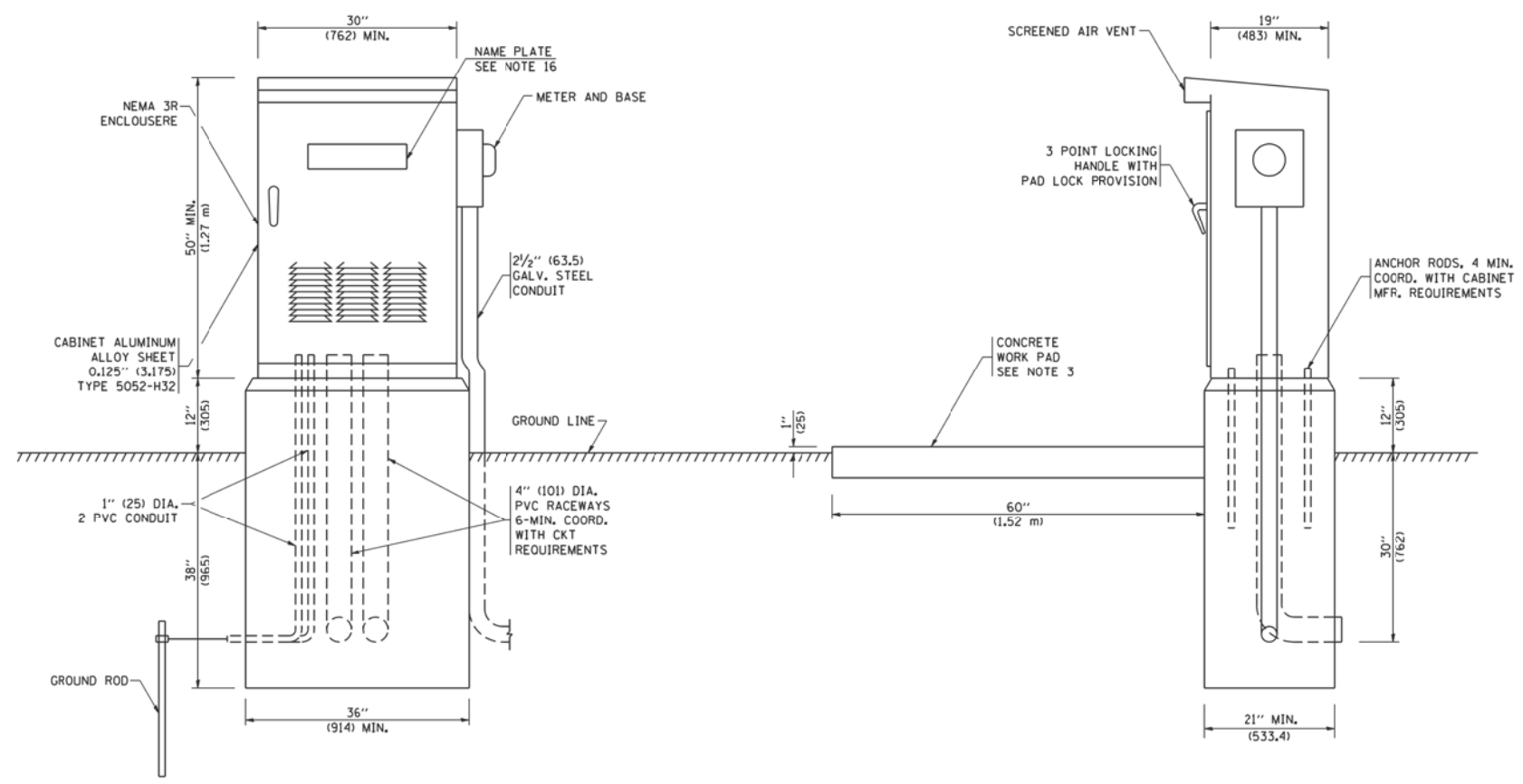
**LT-3**



PANEL WIRING DIAGRAM

PANEL EQUIPMENT

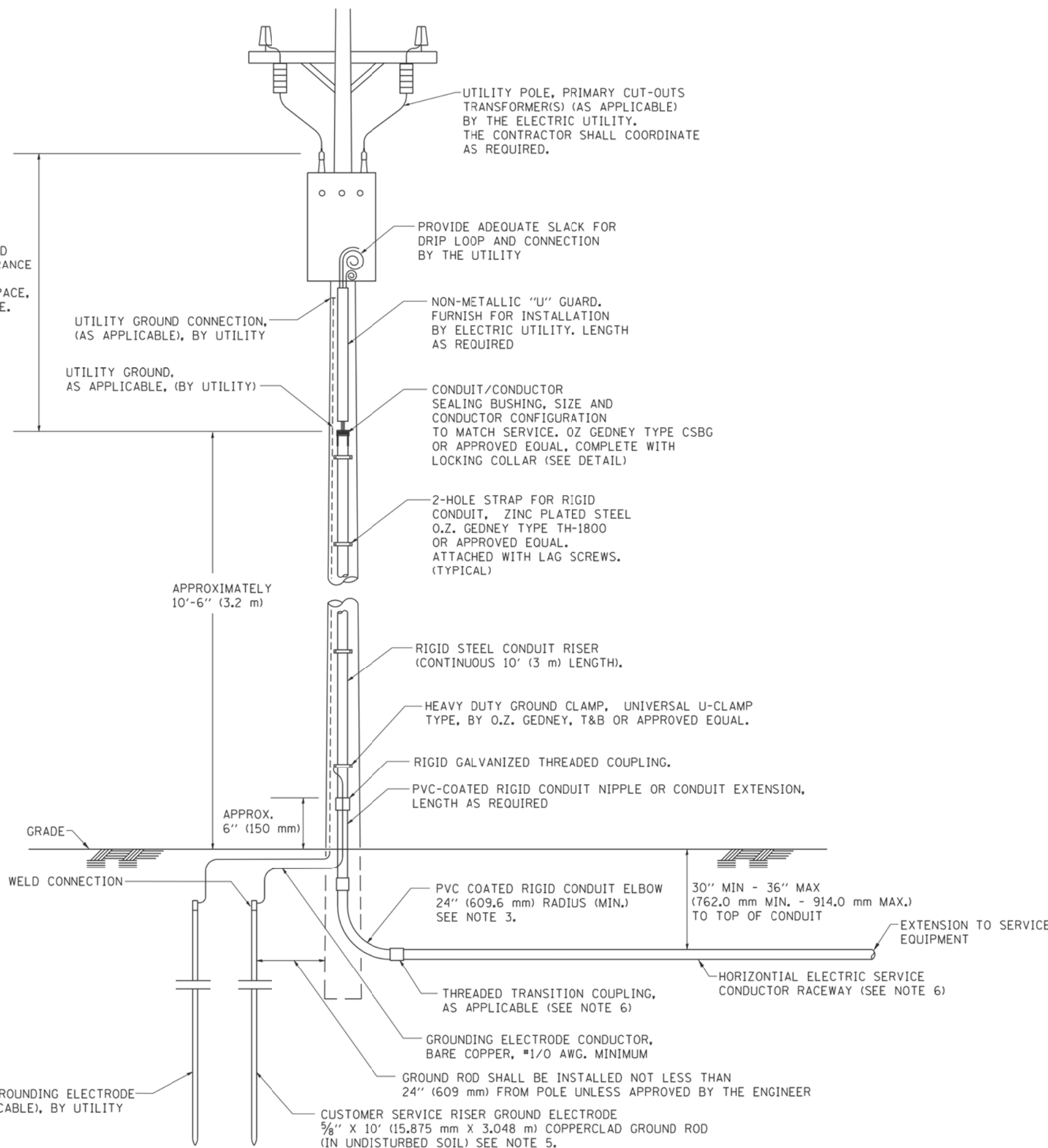
| BILL OF MATERIAL |          |  |
|------------------|----------|--|
| ITEM             | QUANTITY | DESCRIPTION  |
| A                | 1        | MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT 100 AMP. FRAME, 100 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-22000 AMP. AT 480 VOLT.      |
| B                | 1        | REMOTE CONTROL SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, SINGLE THROW, 100 AMP., 600 VOLTS CONTROL CIRCUIT 240 VOLT.           |
| C                | 8        | CIRCUIT BREAKERS, 1 POLE, 100AMP. FRAME, 50 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-10,000 AMP. AT 240 V.                       |
| D                | 2        | CONTROL CIRCUIT-CIRCUIT BREAKER, 1 POLE, 240 V., 100 AMP. FRAME, 15 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-5000 AMP. AT 240 V. |
| E                | 1        | ASTRONOMIC MICROPROCESSOR-BASED 2-CHANNEL CONTROLLER [TIME SWITCH].  |
| F                | 1        | 20 A., 120 V. FUSE.  |
| G                | 1        | 1.5 KVA, SINGLE PHASE, ENCAPSULATED TRANSFORMER 240 X 480 / 120 X 240 VOLT, 60 Hz.   |
| H                | 1        | SPST 20A SWITCH ON DOOR, TO TURN LIGHT ON WHEN DOOR IS OPEN.   |
| I                | 1        | INCANDESCENT LIGHTING FIXTURE ENCLOSED AND GASKETED WITH 60 WATT, 120 V. LAMP.   |
| J                | 1        | 20 A., 120 V., DUPLEX RECEPTACLE, GFCI.  |
| K                | 1        | COPPER GROUND BUS 1/4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS                                    |
| L                | 1        | TOGGLE SWITCHES MOUNTED IN 4" (101.6) X 4" (101.6 mm) BOX.   |
| M                | 1        | COPPER GROUND BUS 1/4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND SPARE LUGS                                      |



NOTES:

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- FOUNDATION SIZE SHALL BE COORDINATED WITH CABINET SIZE AND MFR.
- IN FRONT OF CONTROL CABINET DOOR, REMOVE VEGETATION AND 2" (50.8 mm) TOP SOIL, LEVEL THE AREA AND ON TOP, PLACE LENGTH WISE PARALLEL TO CONTROL CABINET, A CONCRETE PAD 36" (914.4 mm) x 60" (18,288 mm) x 4" (101 mm) MIN. SIZE. THE COST OF LABOR AND MATERIALS ARE INCLUDED IN THE COST OF THE CONTROLLER.
- DOOR SHALL BE CONSTRUCTED FROM SAME TYPE OF MATERIAL AND THICKNESS AS CABINET.
- DOOR SHALL BE EQUIPPED WITH THREE POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP THE BOTTOM.
- DOOR HINGE SHALL BE A HEAVY GAUGE CONTINUOUS HINGE WITH A 1/4" (6.35 mm) DIA. STAINLESS STEEL HINGE PIN.
- ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL.
- CONTROL WIRING TO BE #12 AWG, 600V, TYPE "SIS" GRAY SWITCH BOARD WIRE, STRANDED COPPER.
- METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET, NEAR TO THE SERVICE POLE.
- CABINETS SHALL BE PRIMED AND PAINTED AS SPECIFIED.
- THE HEADS OF CONNECTORS SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BAR CONNECTION AND GREEN FOR GROUND BAR CONNECTORS.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED.  
R = RED      BL = BLUE      W = WHITE  
B = BLACK    Y = YELLOW      G = GREEN
- PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
- THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
- 12" (304.8) X 16" (406.4 mm) STAINLESS STEEL EXTERIOR NAMEPLATE SHALL BE ENGRAVED TO "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.

ASCERTAIN AND ASSURE CLEARANCE FROM UTILITY SECONDARY SPACE, AS APPLICABLE.

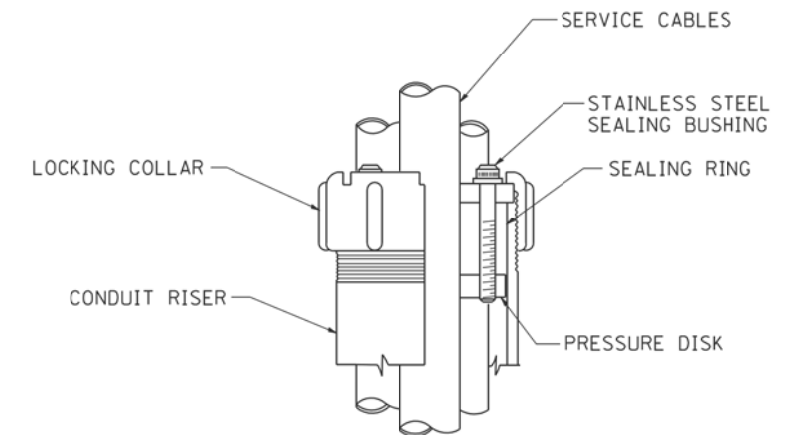


**APPLICATION**

THIS DETAIL APPLIES FOR LOW VOLTAGE ELECTRIC SERVICE (660 V OR LESS) FROM AN OVERHEAD UTILITY SUPPLY TO SEPERATLY-MOUNTED SERVICE EQUIPMENT.

**NOTES**

- SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
- UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.
- CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF THE SERVICE CONDUCTOR RACEWAY AS INDICATED ON THE PLANS.
- PVC COATED RACEWAYS AND ACCESSORIES SHALL BE CAREFULLY INSTALLED WITH MFR RECOMMENDED TOOLS AND PROCEDURES TO AVOID DAMAGE. ANY DAMAGE SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER OF SERVICE RISER GROUND ELECTRODE, RISER ELBOW, NIPPLE AND CONNECTION TO SERVICE CONDUCTOR RACEWAY EXTENSION BEFORE BACKFILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY "U" GUARD INSTALLATION AND SERVICE CONNECTION.
- THE HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT. WHEN THE RACEWAY IS PVC-COATED RIGID GALVANIZED STEEL, THE COUPLING SHALL BE THE SAME. WHEN THE RACEWAY IS PVC CONDUIT (IN CONCRETE), THE COUPLING SHALL BE A METALIC TO NON METALIC ADAPTER. WHEN THE RACEWAY IS ENCASED IN CONCRETE, THE CONCRETE SHALL EXTEND TO COVER THE COUPLING.
- PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY, FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THE UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION IS REQUIRED AND SHALL BE INCLUDED IN THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.

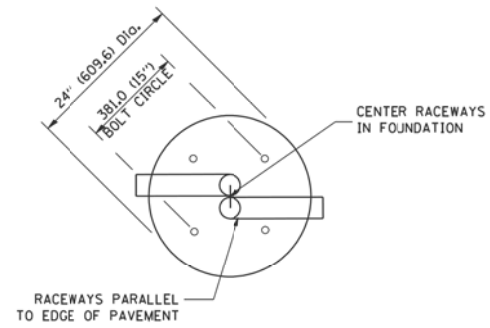


**SEALING BUSHING DETAIL**

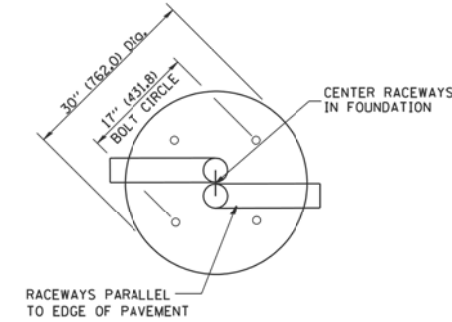
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| PLOT SCALE = 50.0000' / IN.               |                        | CHECKED - MEA         | REVISED -                       |   | SCALE: NONE  | SHEET NO. 1 OF 1 SHEETS | STA. TO STA. | <b>BE-220</b>   |                | CONTRACT NO. 60T01 |                    |                |
| PLOT DATE = 1/4/2008                      |                        | DATE -                | REVISED -                       |   | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT                    |                         |              |                 |                |                    |                    |                |
|   |                        |                       |                                 |   |  |                         |              |                 |                |                    |                    |                |

**LIGHT POLE FOUNDATION DEPTH TABLE**  
40 FT. (12.192 m) TO 47.5 FT. (14.478 m) MOUNTING HEIGHT

| SOIL CONDITIONS                                 | DESIGN DEPTH "D" OF FOUNDATION |                    |
|---|--------------------------------|--------------------|
|   | SINGLE ARM POLE                | TWIN ARM POLE      |
| SOFT CLAY<br>O <sub>u</sub> = 0.375 TON/SO. FT. | 13'-0"<br>(3.96 m)             | 15'-0"<br>(4.57 m) |
| MEDIUM CLAY<br>O <sub>u</sub> = 0.75 TON/SO.FT  | 9'-6"<br>(2.93 m)              | 10'-9"<br>(3.23 m) |
| STIFF CLAY<br>O <sub>u</sub> = 1.50 TON/SO. FT. | 7'-0"<br>(2.13 m)              | 8'-0"<br>(2.44 m)  |
| LOOSE SAND<br>φ = 34°                           | 9'-0"<br>(2.74 m)              | 10'-0"<br>(3.05 m) |
| MEDIUM SAND<br>φ = 37.5°                        | 8'-3"<br>(2.52 m)              | 9'-0"<br>(2.74 m)  |
| DENSE SAND<br>φ = 40°                           | 7'-9"<br>(2.36 m)              | 9'-0"<br>(2.74 m)  |



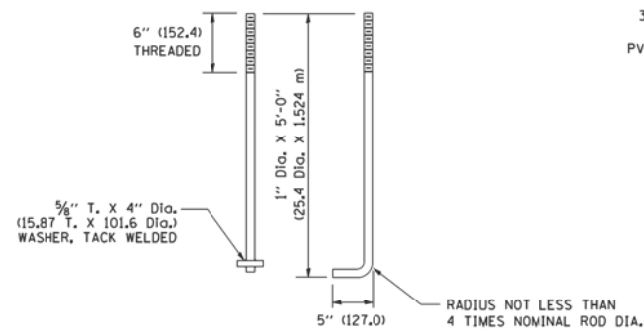
**TOP VIEW**



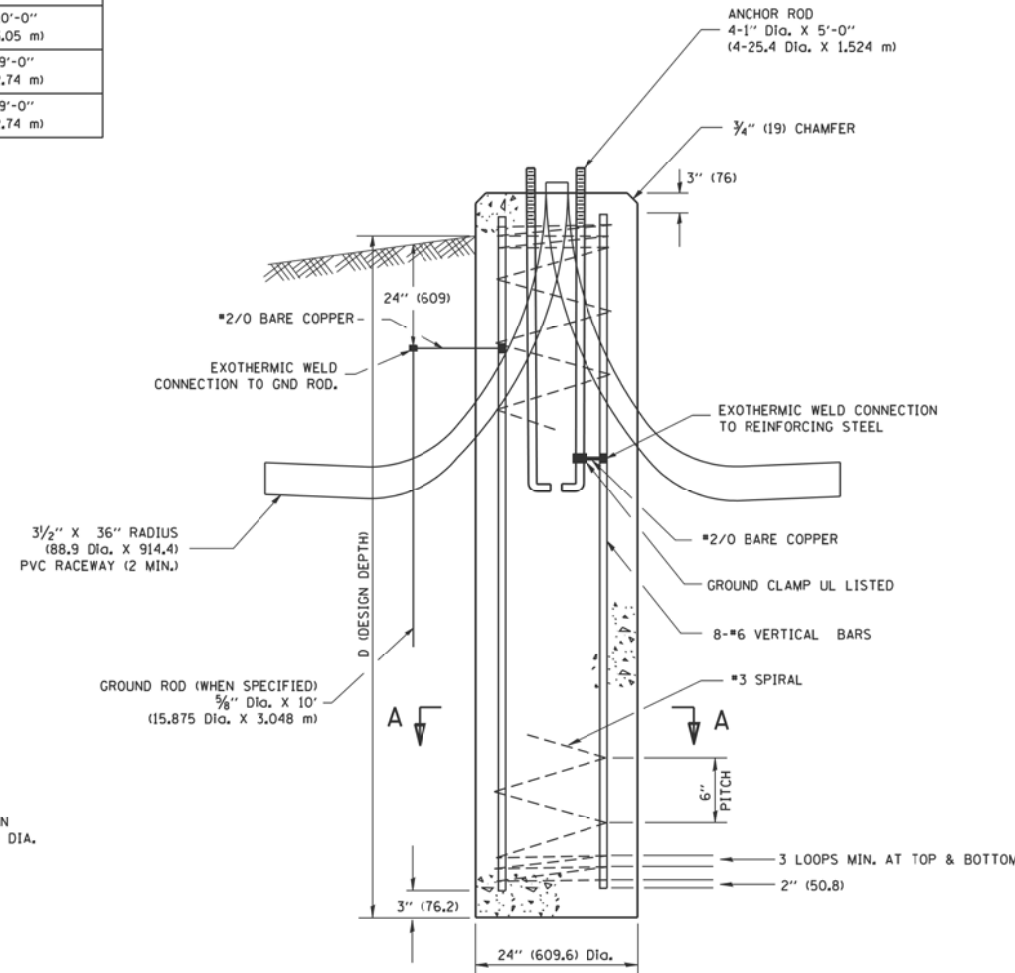
**TOP VIEW**

**NOTES**

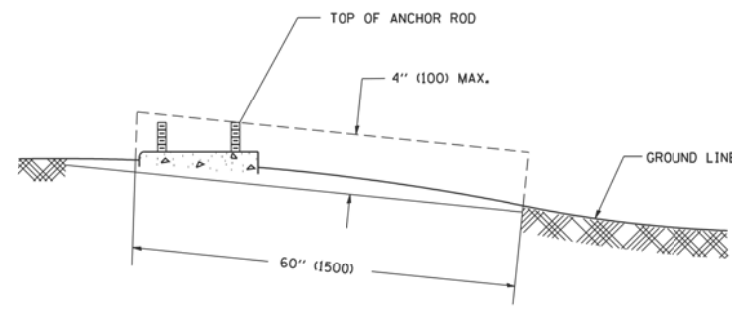
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4-IN. (20 mm).
- THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM/6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.



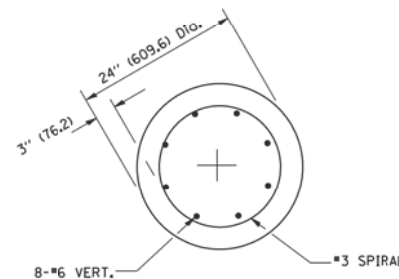
**ANCHOR ROD DETAIL**



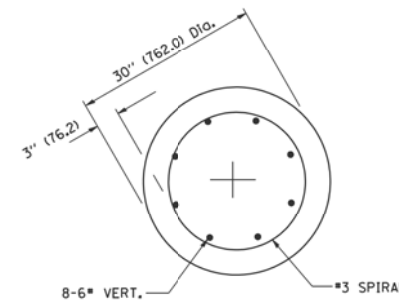
**FOUNDATION DETAIL**



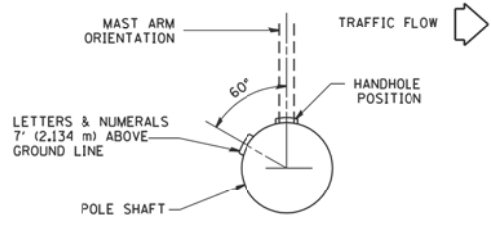
**FOUNDATION EXTENSION DETAIL**



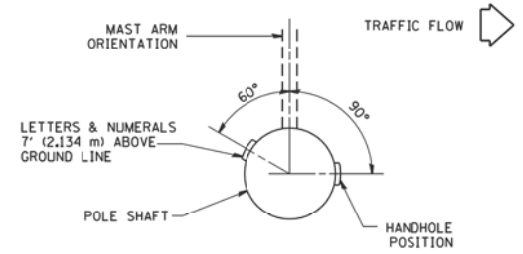
**SECTION A-A**



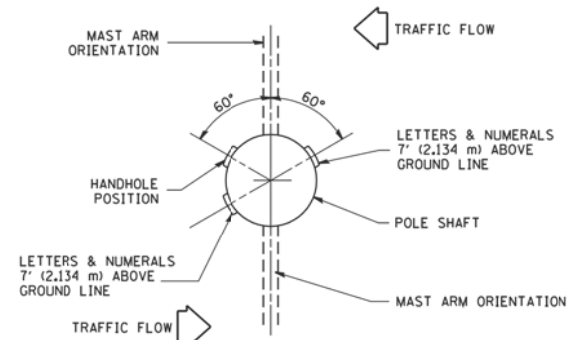
**SECTION A-A**



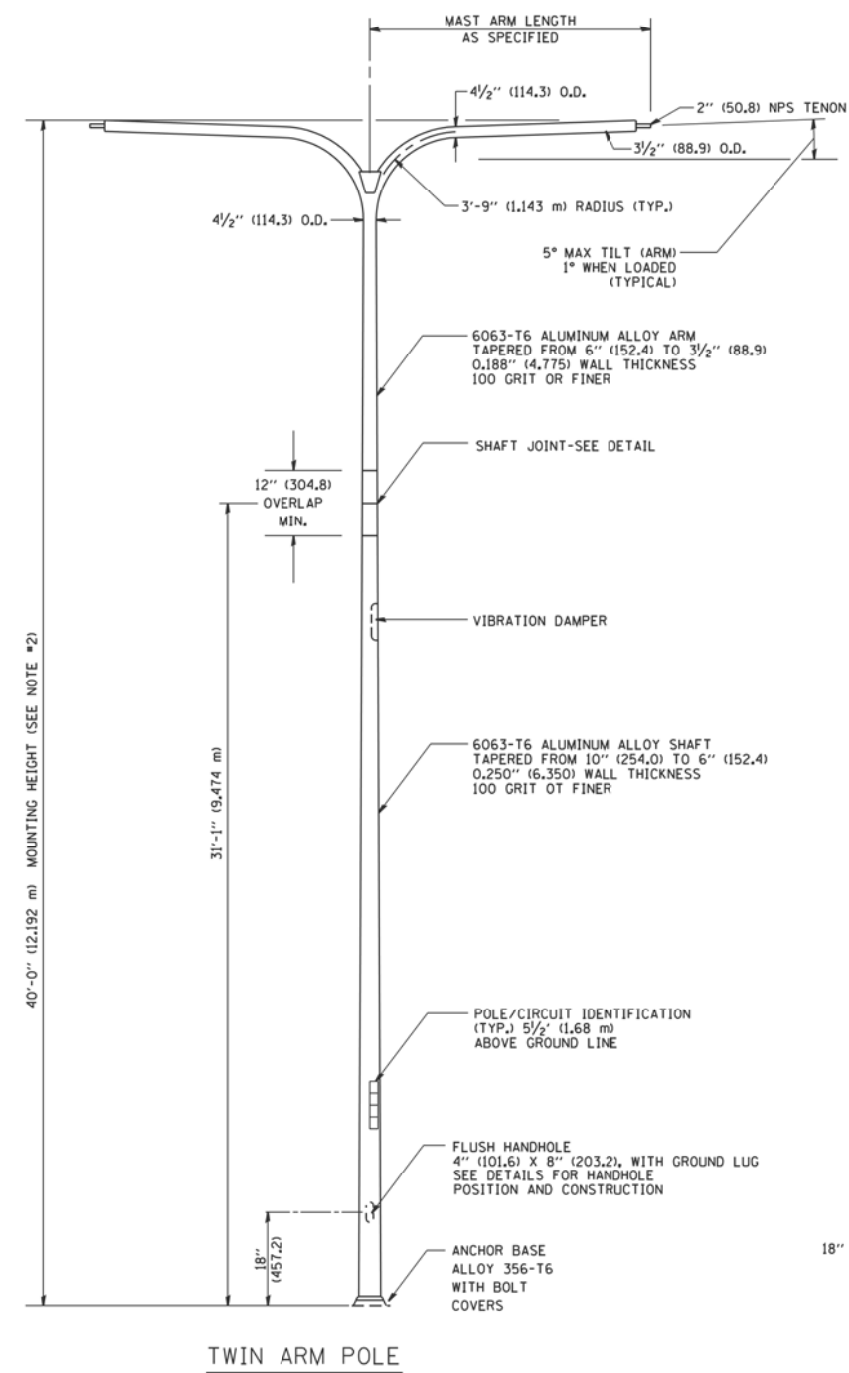
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES MOUNTED ON BRIDGE PARAPET OR BARRIER WALL



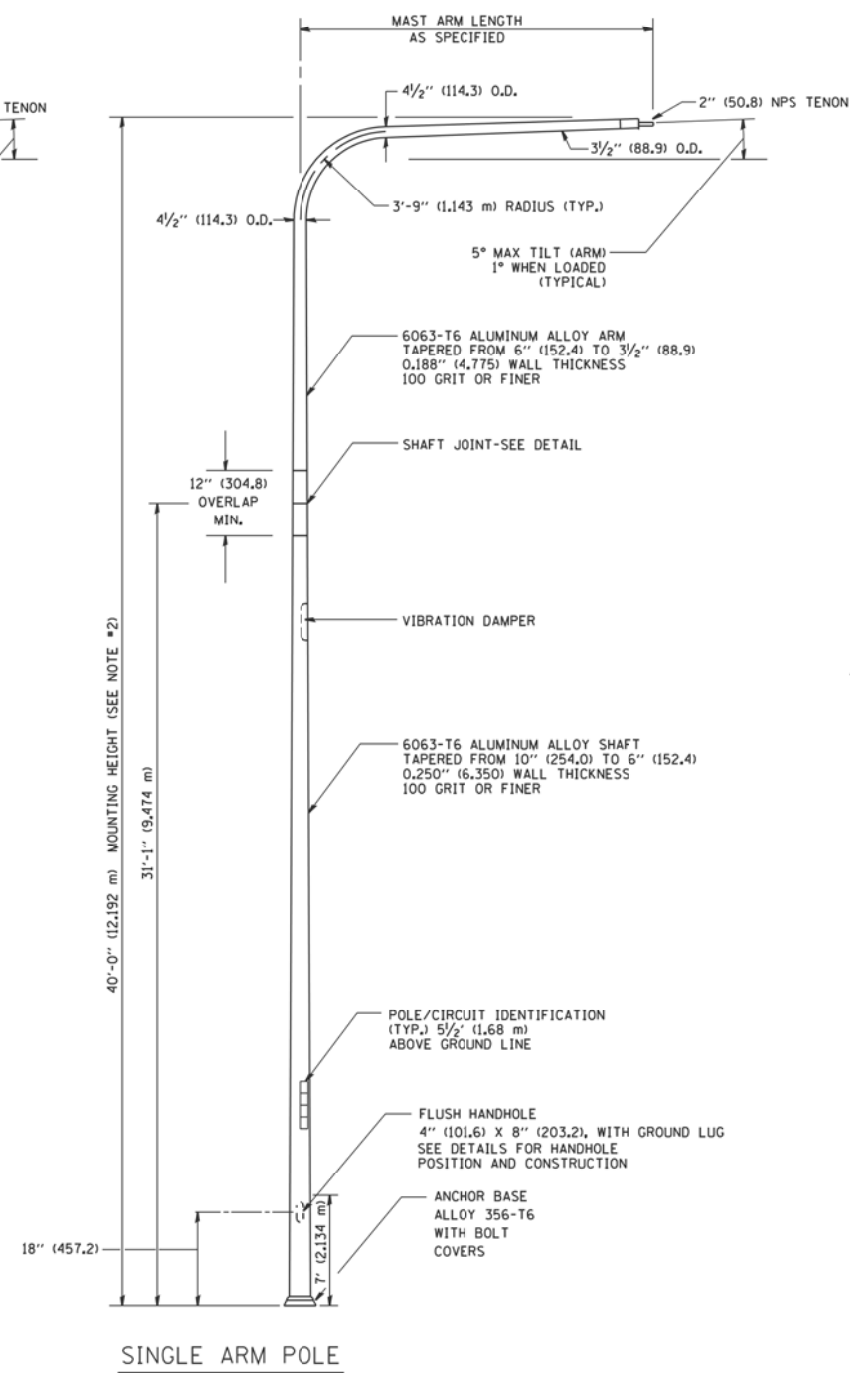
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES



POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES

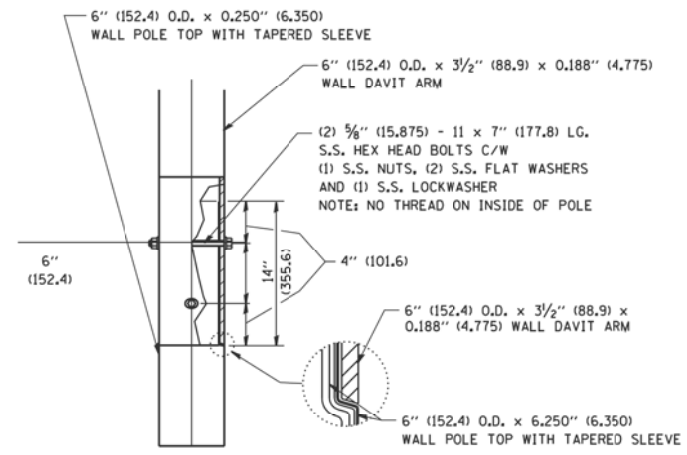


TWIN ARM POLE

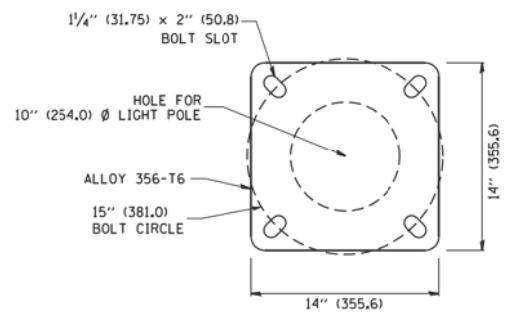


SINGLE ARM POLE

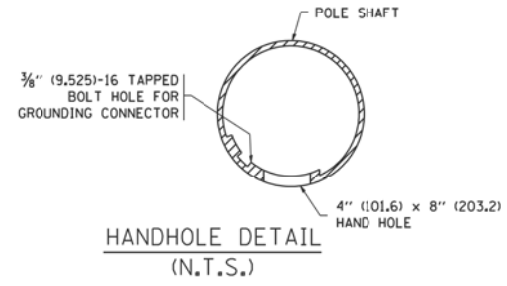
- NOTES:**
1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
  2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
  3. TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.
  4. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
  5. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR, BURNDY K2C23, T&B SP40L OR APPROVED EQUAL.
  6. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
  7. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS, OR SHIMS.
  8. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.



DAVIT ARM CONNECTION  
[14" (355.6) OVERLAP SHOWN]



LIGHT POLE BASE PLATE DETAIL  
(FOR POLE MOUNTED ON 15 INCH (381.0) BOLT CIRCLE FOUNDATION)



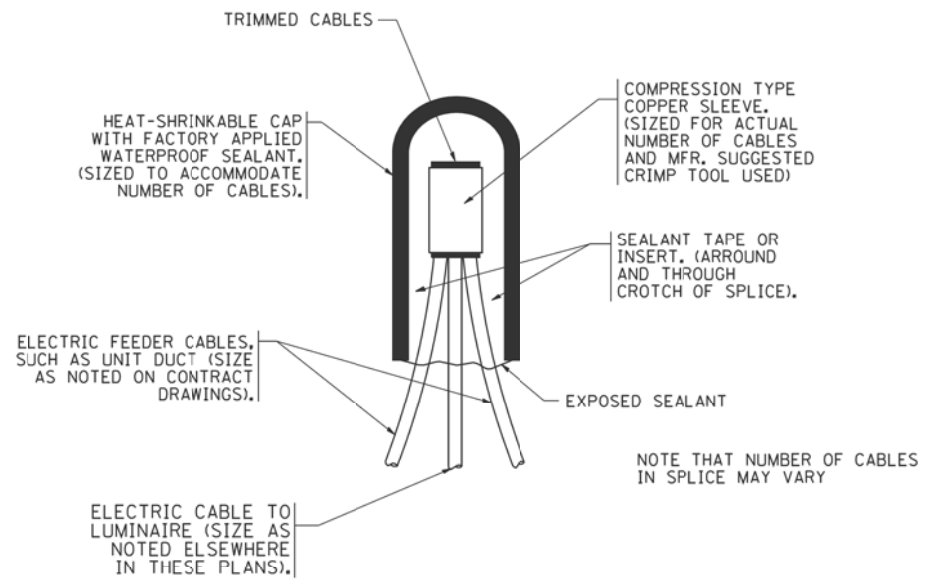
HANDHOLE DETAIL  
(N.T.S.)

|                            |                     |             |                               |
|----------------------------|---------------------|-------------|-------------------------------|
| FILE NAME =                | USER NAME = geglano | DESIGNED -  | REVISED - D. DREW 04-02-92    |
| W:\diststd\22x34\be411.dgn |                     | DRAWN - LEY | REVISED - D. DREW 05-07-92    |
|                            |                     | CHECKED -   | REVISED - R. TOMSONS 09-06-00 |
|                            |                     | DATE -      | REVISED - R. TOMSONS 09-02-03 |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

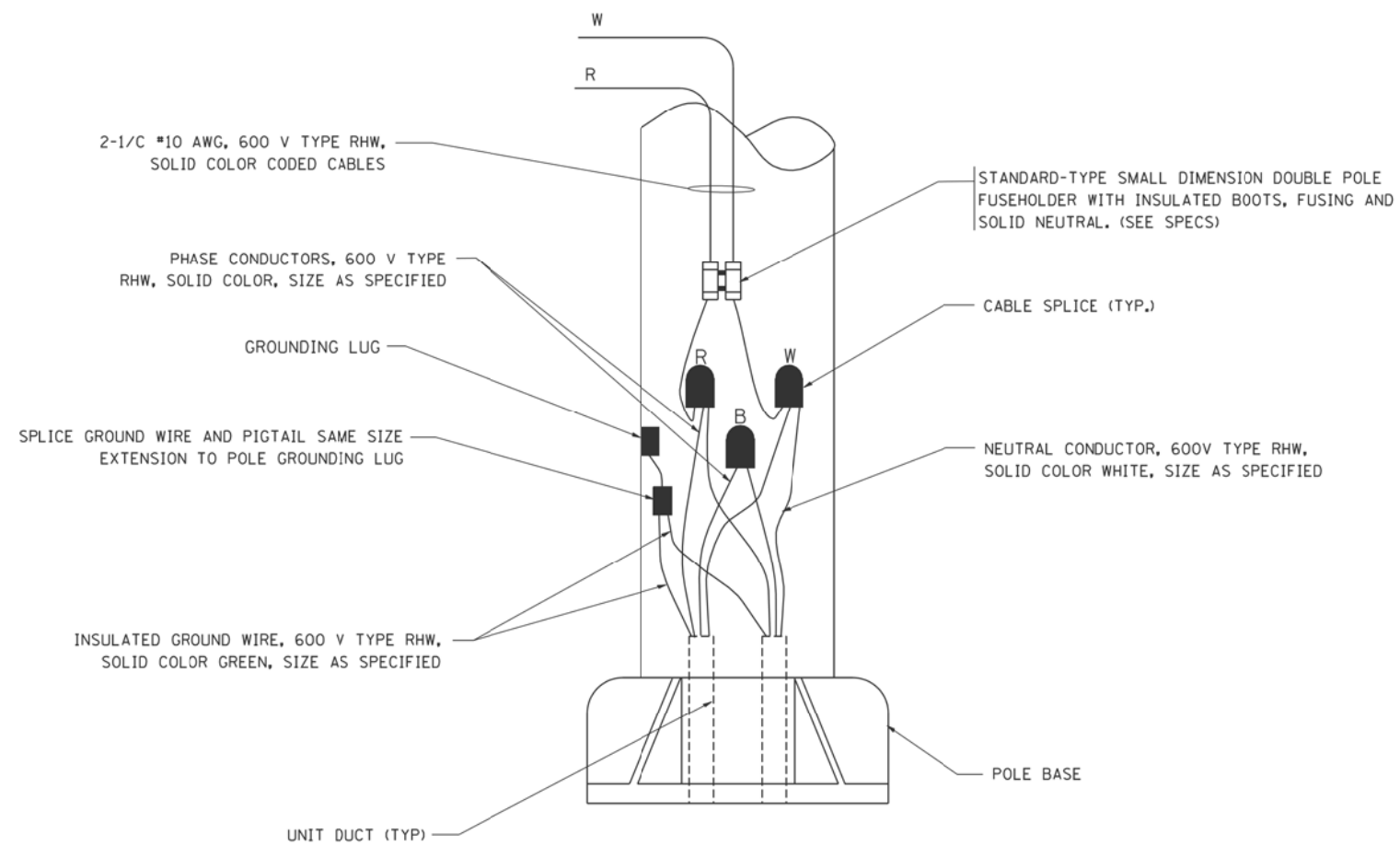
|                                   |                         |      |         |
|-----------------------------------|-------------------------|------|---------|
| DAVIT LIGHT POLE                  |                         |      |         |
| 40'-0" (12.192 m) MOUNTING HEIGHT |                         |      |         |
| SCALE: NONE                       | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA. |

|   |         |                    |              |           |
|---|---------|--------------------|--------------|-----------|
| F.A. RTE.                                       | SECTION | COUNTY             | TOTAL SHEETS | SHEET NO. |
| 525   | 11-N    | MCHENRY            | 135          | 79        |
| BE-411  |         | CONTRACT NO. 60T01 |              |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |         |                    |              |           |



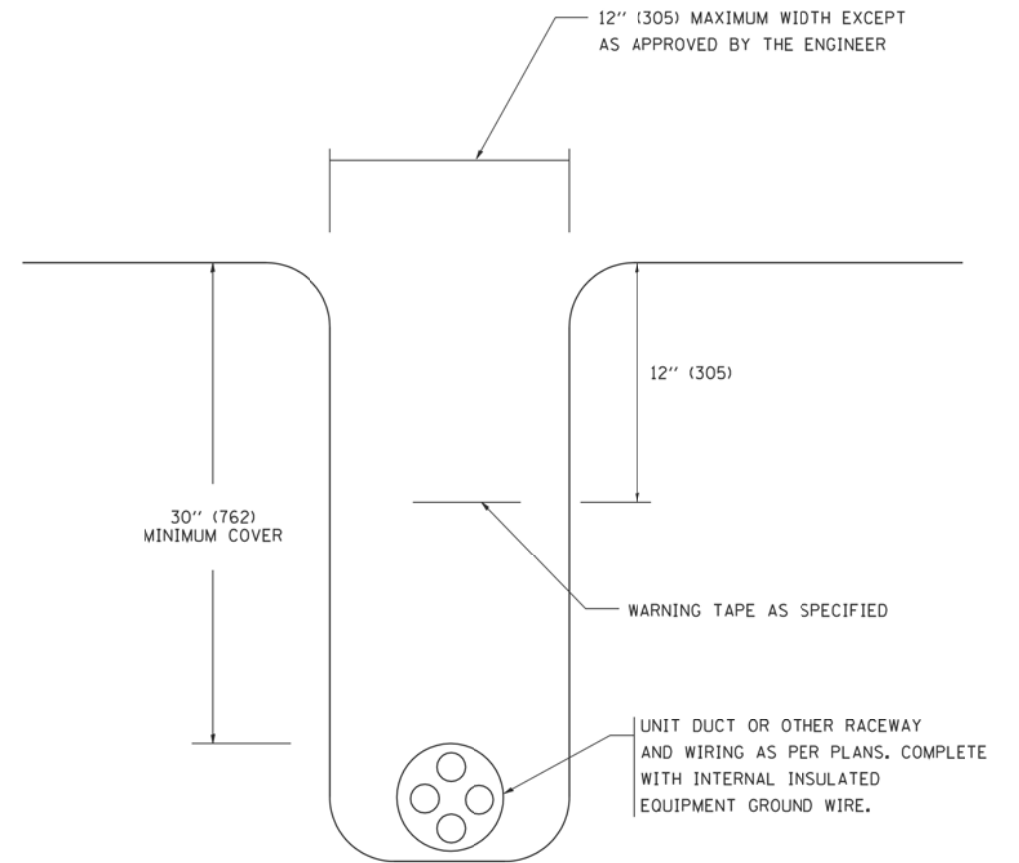
TYPICAL SPLICE DETAIL

N.T.S.



POLE WIRING DETAIL

N.T.S.



TYPICAL WIRING IN TRENCH DETAIL

N.T.S.

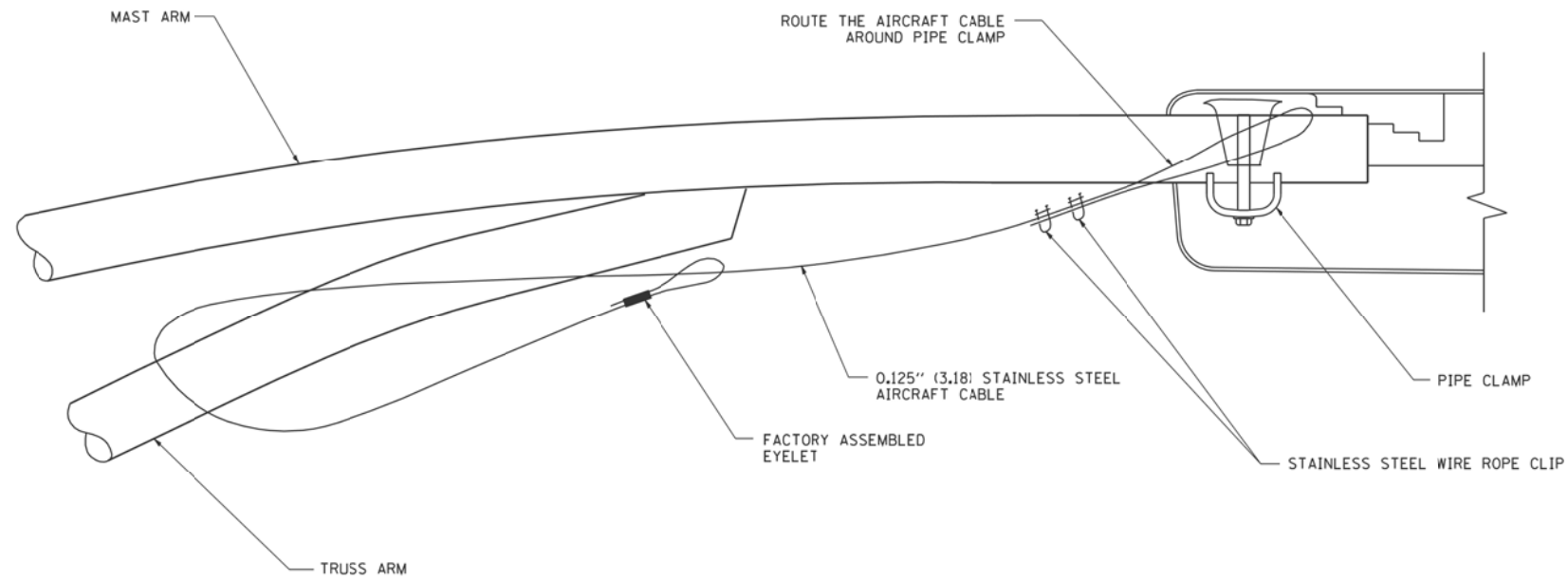
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|   |                            | DRAWN -    | REVISED -          |
|   | PLOT SCALE = 50.000' / IN. | CHECKED -  | REVISED -          |
|   | PLOT DATE = 1/4/2008       | DATE -     | REVISED -          |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

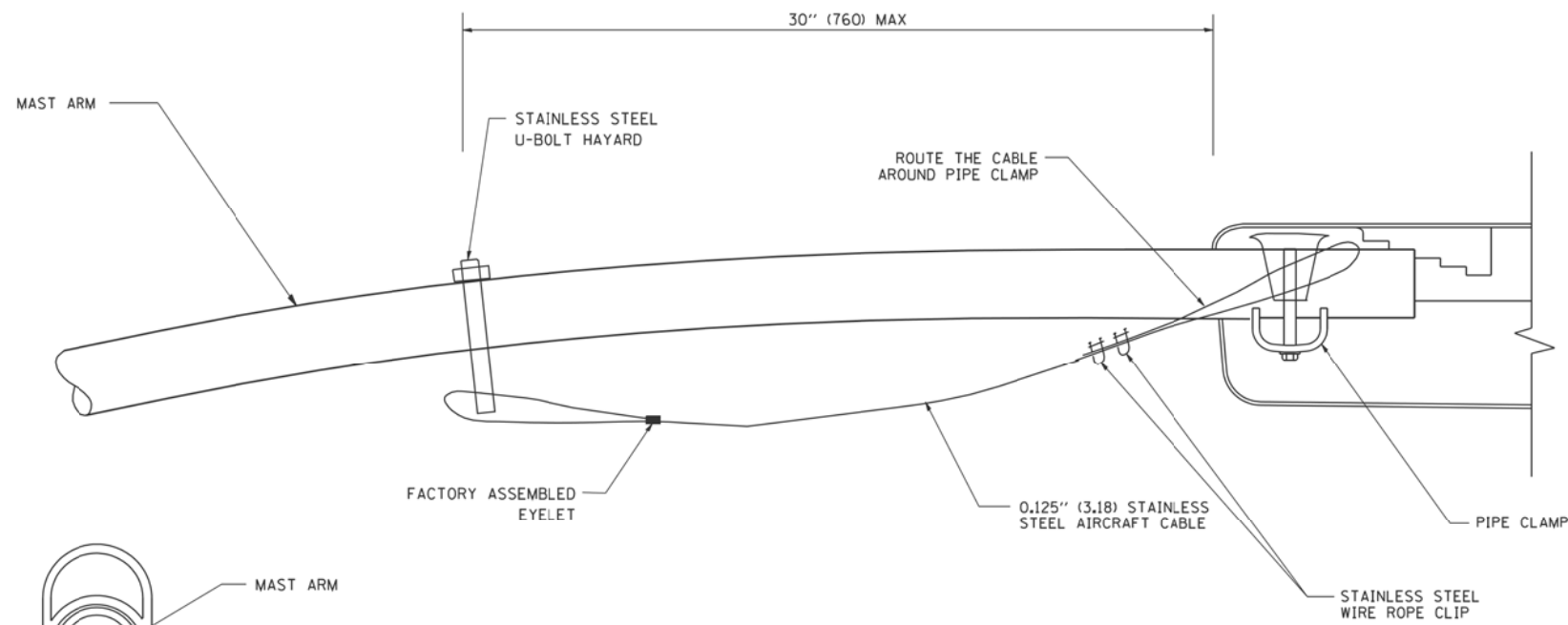
|                          |                         |      |         |
|--------------------------|-------------------------|------|---------|
| MISC. ELECTRICAL DETAILS |                         |      |         |
| SHEET A                  |                         |      |         |
| SCALE: NONE              | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA. |

|   |         |                    |              |           |
|---|---------|--------------------|--------------|-----------|
| F.A. RTE.                                       | SECTION | COUNTY             | TOTAL SHEETS | SHEET NO. |
| 525   | 11-N    | MCHENRY            | 135          | 80        |
| BE-702  |         | CONTRACT NO. 60T01 |              |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |         |                    |              |           |

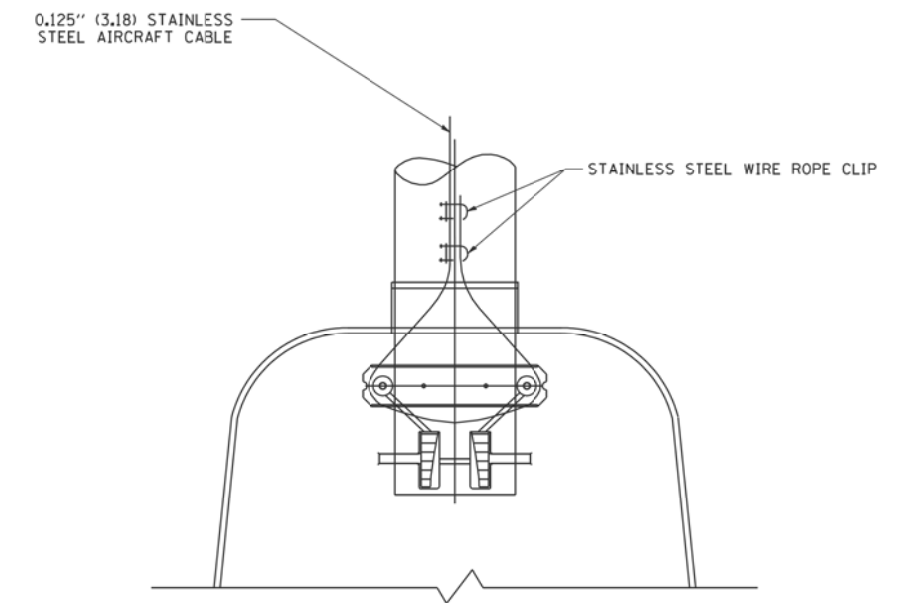
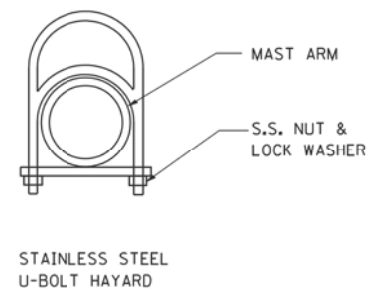




**SIDE VIEW (TRUSS ARM)**  
N.T.S.



**SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)**  
N.T.S.

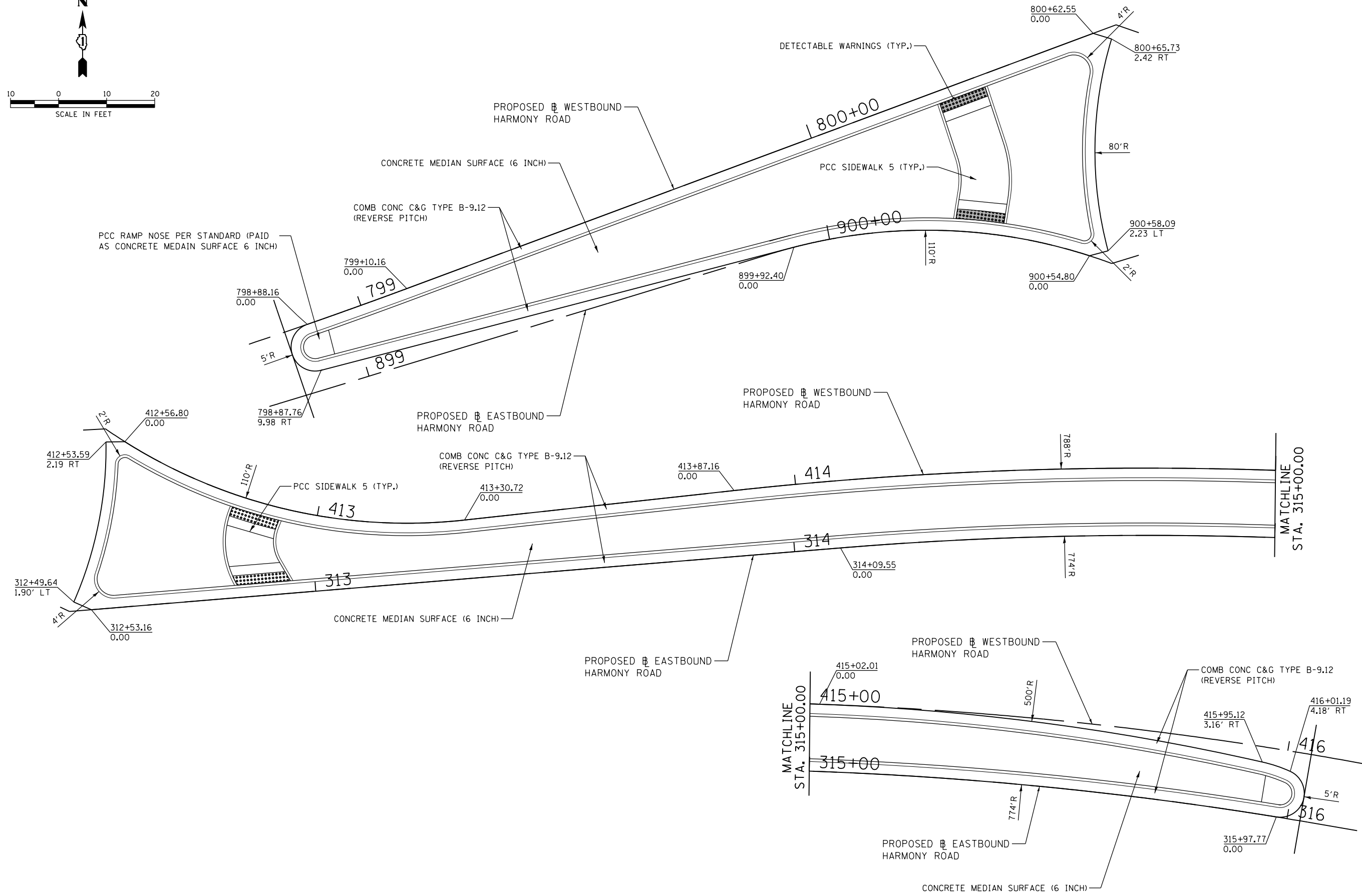
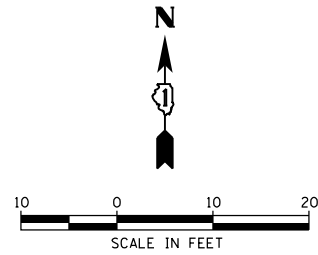


**BOTTOM VIEW**  
N.T.S.

**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN.

|   |                            |            |                    |   |  |      |         |               |         |                    |              |           |
|---|----------------------------|------------|--------------------|---|--|------|---------|---------------|---------|--------------------|--------------|-----------|
| FILE NAME =<br>W:\diststd\22x34\be701.dgn | USER NAME = goglianobt     | DESIGNED - | REVISED - 08-08-03 | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>LUMINAIRE SAFETY CABLE ASSEMBLY</b> |      |         | F.A. RTE.     | SECTION | COUNTY             | TOTAL SHEETS | SHEET NO. |
|   | PLOT SCALE = 50.000' / IN. | DRAWN -    | REVISED -          |   |  |      |         | 525           | 11-N    | MCHEMRY            | 135          | 81        |
| PLOT DATE = 1/4/2008                      | CHECKED -                  | REVISED -  | REVISED -          | SCALE: NONE   | SHEET NO. 1 OF 1 SHEETS                | STA. | TO STA. | <b>BE-701</b> |         | CONTRACT NO. 60101 |              |           |
|   | DATE -                     | REVISED -  |                    | FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT       |  |      |         |               |         |                    |              |           |



COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: bhartma  
 DATE PLOTTED: 3/29/2018 11:04:45 AM  
 FILE NAME: D:\60T01-sht-det-island-01.dgn  
 PLOT DRIVER: ILpdf.plt  
 PEN TABLE: plot.tbl



|  |                |           |
|--|----------------|-----------|
| USER NAME = bhartma                        | DESIGNED - BH  | REVISED - |
| FILE NAME = D:\60T01-sht-det-island-01.dgn | DRAWN - DMS    | REVISED - |
| PLOT SCALE = 1" = 10'                      | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                      | DATE - 3/29/18 | REVISED - |

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SPLITTER ISLAND DETAILS**  
**US-20 AT HARMONY ROAD**

SCALE: 1" = 10'    SHEET NO. 1 OF 2 SHEETS    STA.    TO STA.

|  |              |                |                  |              |
|--|--------------|----------------|------------------|--------------|
| F.A.P. RTE. 525                                  | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135 | SHEET NO. 82 |
| CONTRACT NO. 60T01                               |              |                |                  |              |
| FED. ROAD DIST. NO.    ILLINOIS FED. AID PROJECT |              |                |                  |              |

PCC RAMP NOSE PER STANDARD (PAID AS CONCRETE MEDIAN SURFACE 6 INCH)

PROPOSED SOUTHBOUND US ROUTE 20

COMB CONC C&G TYPE B-9.12 (REVERSE PITCH)

CONCRETE MEDIAN SURFACE (6 INCH)

PCC SIDEWALK 5 (TYP.)

PROPOSED NORTHBOUND US ROUTE 20

PROPOSED SOUTHBOUND US ROUTE 20

COMB CONC C&G TYPE B-9.12 (REVERSE PITCH)

CONCRETE MEDIAN SURFACE (6 INCH)

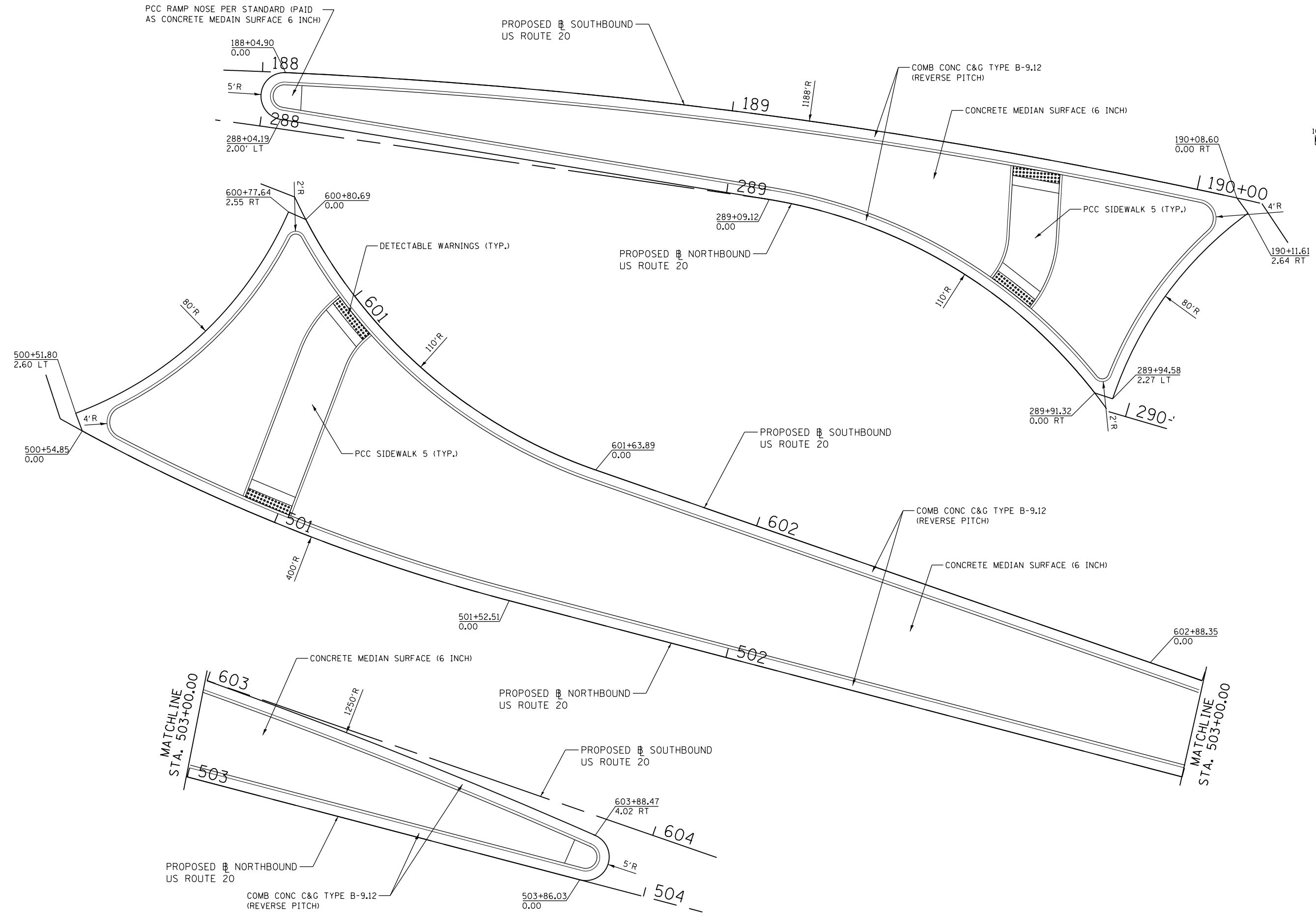
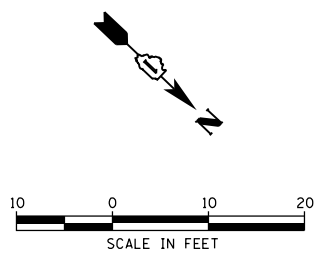
PCC SIDEWALK 5 (TYP.)

PROPOSED NORTHBOUND US ROUTE 20

PROPOSED SOUTHBOUND US ROUTE 20

PROPOSED NORTHBOUND US ROUTE 20

COMB CONC C&G TYPE B-9.12 (REVERSE PITCH)



COMPANY NAME: HRGreen  
 PROJECT CONTACT: bhartma  
 DATE PLOTTED: 3/29/2018 11:05:54 AM  
 FILE NAME: D:\60101-sht-det-island-02.dgn  
 PLOT DRIVER: ILpdfwrtf9  
 PEN TABLE: plottbl.tbl



|  |                |           |
|--|----------------|-----------|
| USER NAME = bhartma                        | DESIGNED - BH  | REVISED - |
| FILE NAME = D:\60101-sht-det-island-02.dgn | DRAWN - DMS    | REVISED - |
| PLOT SCALE = 1" = 10'                      | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                      | DATE - 3/29/18 | REVISED - |

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SPLITTER ISLAND DETAILS  
 US-20 AT HARMONY ROAD

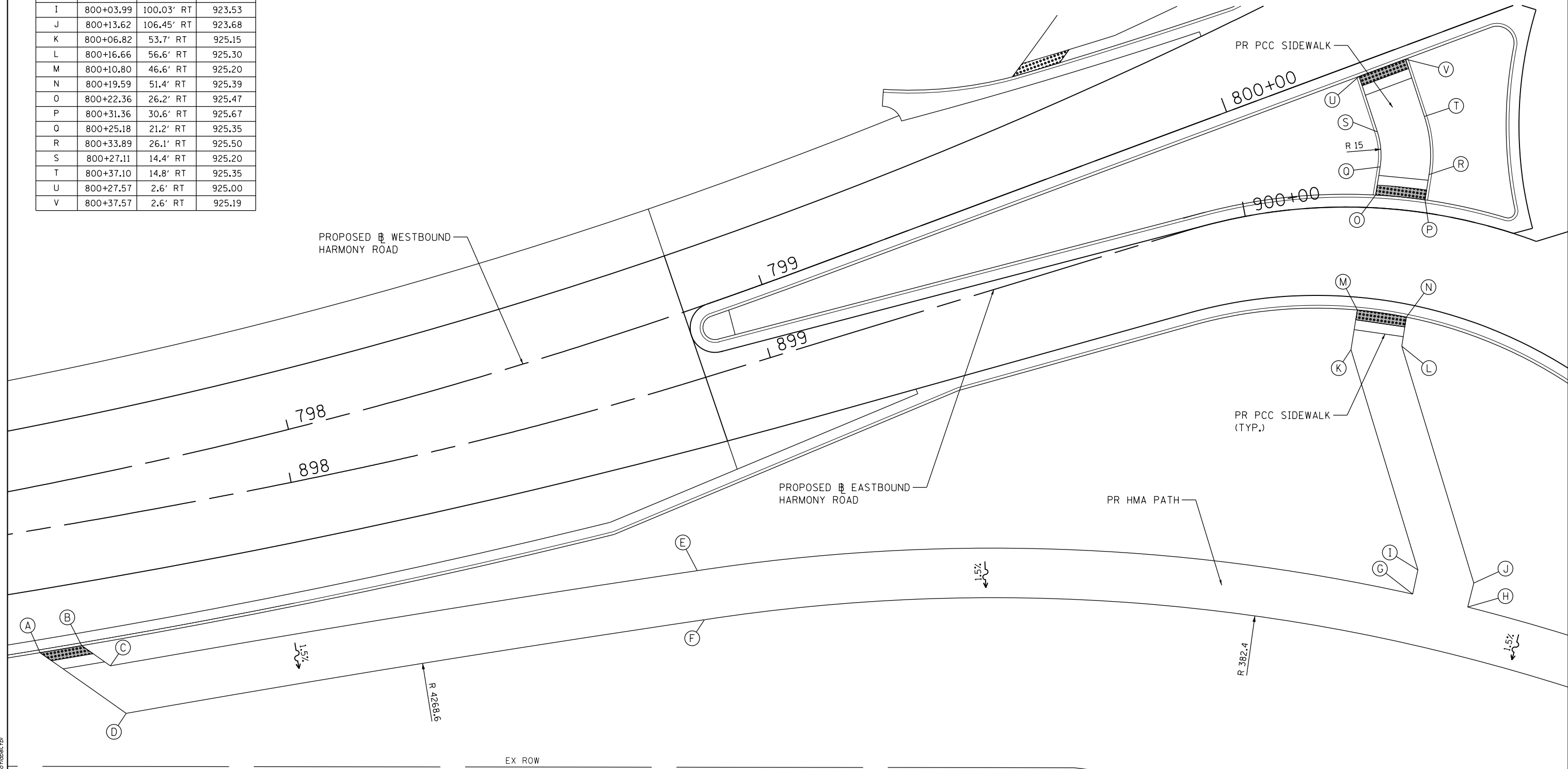
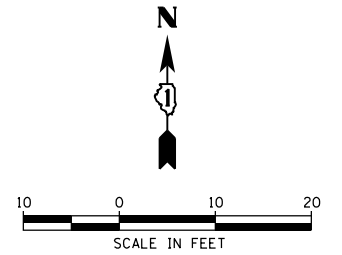
SCALE: 1" = 10' SHEET NO. 2 OF 2 SHEETS STA. TO STA.

| F.A.P. RTE.                                   | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---|---------|---------|--------------|-----------|
| 525   | 11-N    | MCHENRY | 135          | 83        |
| CONTRACT NO. 60T01                            |         |         |              |           |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |         |         |              |           |

| POINT DESCRIPTION |           |            |                  |
|-------------------|-----------|------------|------------------|
| POINT             | STATION   | OFFSET     | TOP OF CURB WALL |
| A                 | 897+44.39 | 24.6' RT   | 919.06           |
| B                 | 897+52.78 | 24.6' RT   | 919.14           |
| C                 | 897+57.69 | 29.6' RT   | 919.22           |
| D                 | 897+59.16 | 39.6' RT   | 919.37           |
| E                 | 898+73.70 | 36.9' RT   | 922.32           |
| F                 | 898+72.39 | 46.8' RT   | 922.17           |
| G                 | 800+01.28 | 104.23' RT | 923.45           |
| H                 | 800+10.79 | 110.57' RT | 923.60           |
| I                 | 800+03.99 | 100.03' RT | 923.53           |
| J                 | 800+13.62 | 106.45' RT | 923.68           |
| K                 | 800+06.82 | 53.7' RT   | 925.15           |
| L                 | 800+16.66 | 56.6' RT   | 925.30           |
| M                 | 800+10.80 | 46.6' RT   | 925.20           |
| N                 | 800+19.59 | 51.4' RT   | 925.39           |
| O                 | 800+22.36 | 26.2' RT   | 925.47           |
| P                 | 800+31.36 | 30.6' RT   | 925.67           |
| Q                 | 800+25.18 | 21.2' RT   | 925.35           |
| R                 | 800+33.89 | 26.1' RT   | 925.50           |
| S                 | 800+27.11 | 14.4' RT   | 925.20           |
| T                 | 800+37.10 | 14.8' RT   | 925.35           |
| U                 | 800+27.57 | 2.6' RT    | 925.00           |
| V                 | 800+37.57 | 2.6' RT    | 925.19           |

LEGEND

- (A) POINT
- [Hatched Box] DETECTABLE WARNINGS



COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: bhartma  
 DATE PLOTTED: 3/29/2018 11:10:04 AM  
 FILE NAME: D:\60701\sh-t-det-sw-ramps-01.dgn  
 PLOT DRIVER: ILpdf.plt  
 PEN TABLE: plot.tbl



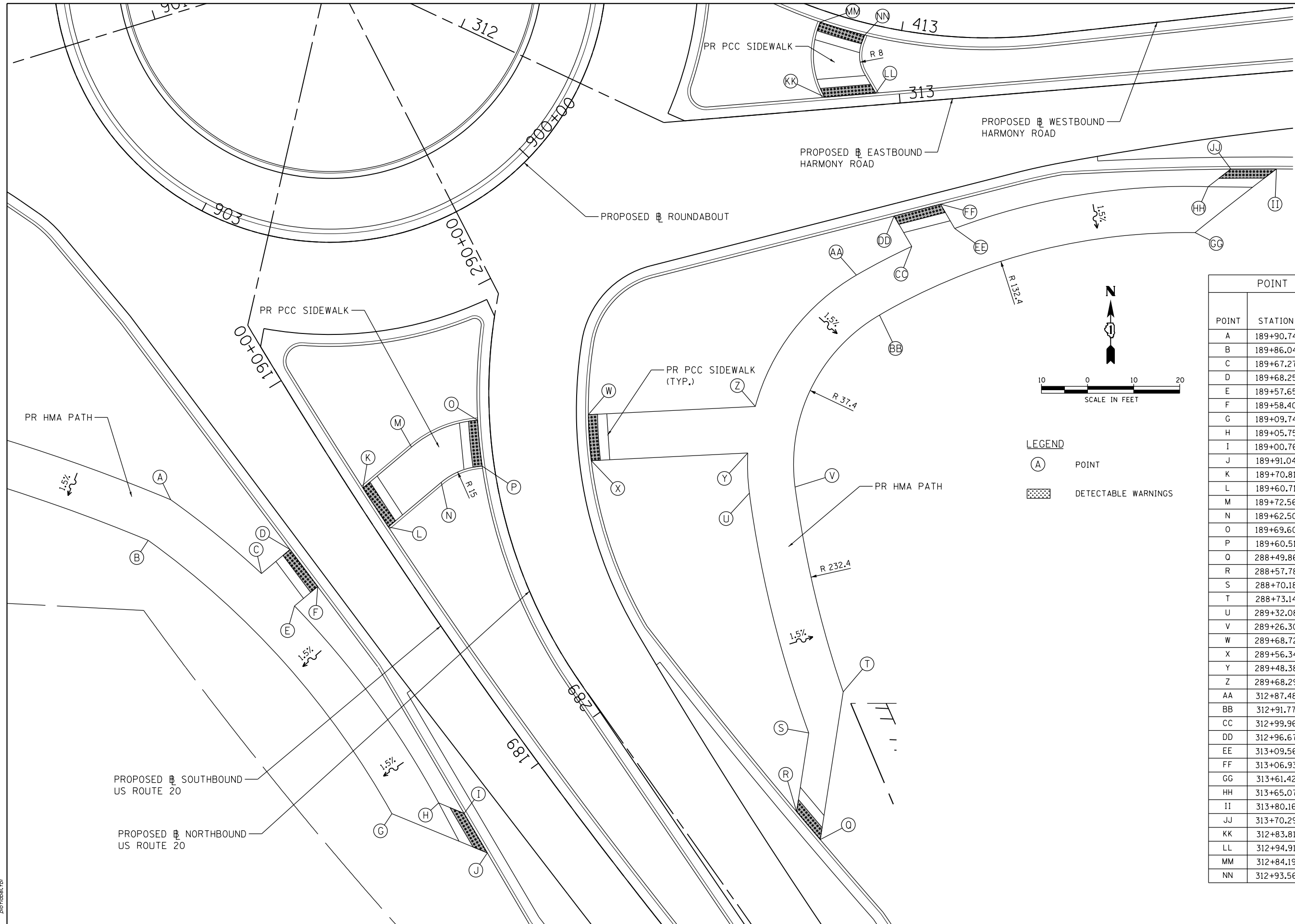
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|---|----------------|-----------|
| USER NAME = bhartma                           | DESIGNED - BH  | REVISED - |
| FILE NAME = D:\60701\sh-t-det-sw-ramps-01.dgn | DRAWN - DMS    | REVISED - |
| PLOT SCALE = 1" = 10'                         | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                         | DATE - 3/29/18 | REVISED - |

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SIDEWALK RAMP DETAILS  
 US-20 AT HARMONY ROAD

SCALE: 1" = 10' SHEET NO. 1 OF 4 SHEETS STA. TO STA.

|   |              |                |                  |              |
|---|--------------|----------------|------------------|--------------|
| F.A.P. RTE. 525                               | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135 | SHEET NO. 84 |
| CONTRACT NO. 60T01                            |              |                |                  |              |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |              |                |                  |              |

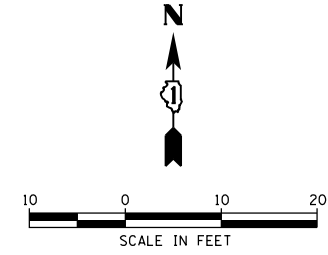


| POINT DESCRIPTION |           |          |           |
|-------------------|-----------|----------|-----------|
| POINT             | STATION   | OFFSET   | ELEVATION |
| A                 | 189+90.74 | 34.0' LT | 925.43    |
| B                 | 189+86.04 | 42.8' LT | 925.28    |
| C                 | 189+67.27 | 26.0' LT | 926.22    |
| D                 | 189+68.25 | 17.9' LT | 926.34    |
| E                 | 189+57.65 | 23.8' LT | 926.20    |
| F                 | 189+58.40 | 17.3' LT | 926.30    |
| G                 | 189+09.74 | 32.1' LT | 925.76    |
| H                 | 189+05.75 | 22.6' LT | 925.91    |
| I                 | 189+00.76 | 19.5' LT | 926.00    |
| J                 | 189+91.04 | 20.5' LT | 926.06    |
| K                 | 189+70.81 | 2.6' RT  | 926.56    |
| L                 | 189+60.71 | 2.6' RT  | 926.52    |
| M                 | 189+72.56 | 16.2' RT | 926.72    |
| N                 | 189+62.50 | 17.5' RT | 926.72    |
| O                 | 189+69.60 | 31.5' RT | 926.80    |
| P                 | 189+60.51 | 26.8' RT | 926.85    |
| Q                 | 288+49.86 | 22.8' RT | 927.40    |
| R                 | 288+57.78 | 22.1' RT | 927.34    |
| S                 | 288+70.18 | 34.2' RT | 927.30    |
| T                 | 288+73.14 | 45.4' RT | 927.15    |
| U                 | 289+32.08 | 52.2' RT | 926.52    |
| V                 | 289+26.30 | 61.8' RT | 926.37    |
| W                 | 289+68.72 | 21.4' RT | 926.54    |
| X                 | 289+56.34 | 21.0' RT | 926.59    |
| Y                 | 289+48.38 | 54.6' RT | 926.39    |
| Z                 | 289+68.29 | 57.7' RT | 926.30    |
| AA                | 312+87.48 | 36.4' RT | 926.70    |
| BB                | 312+91.77 | 45.4' RT | 926.55    |
| CC                | 312+99.96 | 31.2' RT | 926.85    |
| DD                | 312+96.67 | 24.3' RT | 926.90    |
| EE                | 313+09.56 | 28.1' RT | 927.00    |
| FF                | 313+06.93 | 22.6' RT | 927.09    |
| GG                | 313+61.42 | 33.2' RT | 927.72    |
| HH                | 313+65.07 | 23.6' RT | 927.90    |
| II                | 313+80.16 | 20.9' RT | 928.05    |
| JJ                | 313+70.29 | 20.2' RT | 928.00    |
| KK                | 312+83.81 | 2.6' LT  | 926.99    |
| LL                | 312+94.91 | 2.6' LT  | 927.18    |
| MM                | 312+84.19 | 18.9' LT | 926.66    |
| NN                | 312+93.56 | 15.3' LT | 926.86    |

**LEGEND**

(A) POINT

[Hatched Box] DETECTABLE WARNINGS



COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: bhartma  
 DATE PLOTTED: 3/29/2018 11:51:11 AM  
 FILE NAME: D:\60101\shd-det-sw-ramps-02.dwg  
 PLOT DRIVER: ILpdf.plt  
 PEN TABLE: plot.tbl

**HRGreen**  
 HRGreen.com  
 Illinois Professional Design Firm  
 # 184-001322

|  |                |           |
|--|----------------|-----------|
| USER NAME = bhartma                          | DESIGNED - BH  | REVISED - |
| FILE NAME = D:\60101\shd-det-sw-ramps-02.dwg | DRAWN - DMS    | REVISED - |
| PLOT SCALE = 1" = 10'                        | CHECKED -      | REVISED - |
| PLOT DATE = 3/29/2018                        | DATE - 3/29/18 | REVISED - |

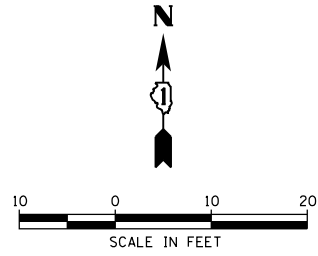
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SIDEWALK RAMP DETAILS  
 US-20 AT HARMONY ROAD**

SCALE: 1" = 10'    SHEET NO. 2 OF 4 SHEETS    STA.    TO STA.

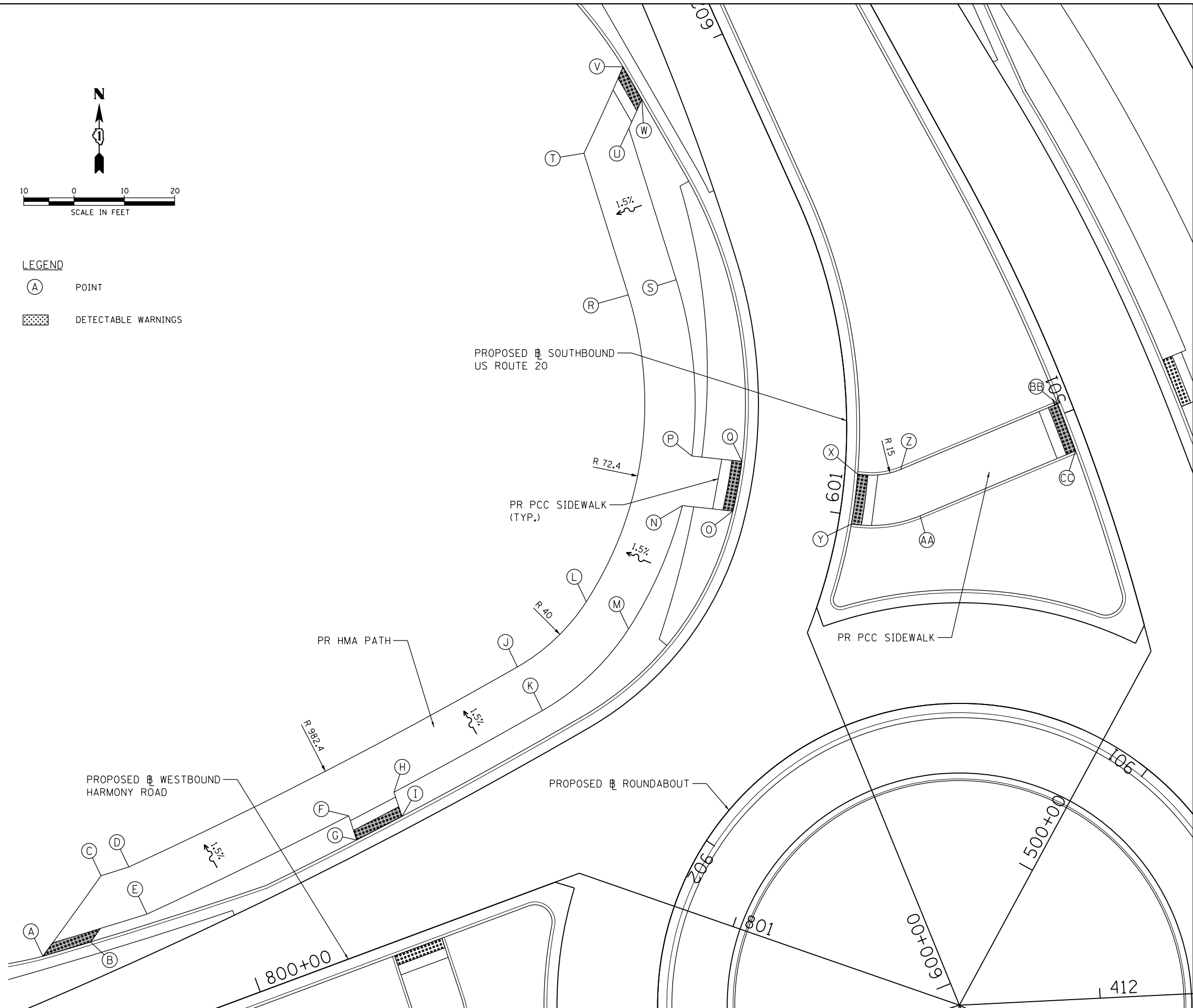
|   |              |                |                    |              |
|---|--------------|----------------|--------------------|--------------|
| F.A.P. RTE. 525                               | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135   | SHEET NO. 85 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |              |                | CONTRACT NO. 60T01 |              |

| POINT DESCRIPTION |           |          |           |
|-------------------|-----------|----------|-----------|
| POINT             | STATION   | OFFSET   | ELEVATION |
| A                 | 799+61.96 | 21.7' LT | 923.42    |
| B                 | 799+71.85 | 21.1' LT | 923.54    |
| C                 | 799+78.39 | 32.7' LT | 923.71    |
| D                 | 799+84.18 | 32.4' LT | 923.71    |
| E                 | 799+84.30 | 22.4' LT | 923.74    |
| F                 | 800+28.69 | 26.7' LT | 924.82    |
| G                 | 800+28.50 | 21.6' LT | 924.89    |
| H                 | 800+38.75 | 27.9' LT | 925.00    |
| I                 | 800+38.55 | 22.9' LT | 925.08    |
| J                 | 901+95.38 | 50.7' RT | 925.25    |
| K                 | 901+97.67 | 41.5' RT | 925.40    |
| L                 | 901+85.10 | 49.3' RT | 924.91    |
| M                 | 901+83.61 | 39.6' RT | 925.06    |
| N                 | 600+95.36 | 31.1' LT | 924.67    |
| O                 | 600+96.46 | 21.1' LT | 924.82    |
| P                 | 601+09.29 | 30.6' LT | 924.59    |
| Q                 | 601+08.82 | 20.6' LT | 924.74    |
| R                 | 601+58.64 | 38.4' LT | 924.33    |
| S                 | 601+57.64 | 28.4' LT | 924.48    |
| T                 | 601+89.75 | 34.9' LT | 923.80    |
| U                 | 601+90.57 | 24.7' LT | 923.95    |
| V                 | 602+02.16 | 20.7' LT | 923.78    |
| W                 | 601+94.74 | 20.0' LT | 923.83    |
| X                 | 601+08.06 | 2.6' RT  | 925.01    |
| Y                 | 600+98.29 | 2.6' RT  | 925.10    |
| Z                 | 601+09.56 | 11.0' RT | 925.10    |
| AA                | 601+01.74 | 15.8' RT | 925.20    |
| BB                | 601+20.54 | 42.0' RT | 924.98    |
| CC                | 601+13.86 | 45.6' RT | 925.06    |



**LEGEND**

- (A) POINT
- [Hatched Box] DETECTABLE WARNINGS



COMPANY NAME: HRGreen  
 PROJECT CONTACT: bhartma  
 DATE PLOTTED: 3/29/2018 11:10:18 AM  
 FILE NAME: D:\60101\shd-det-swramps-03.dgn  
 PLOT DRIVER: ILpdf.plt  
 PEN TABLE: plot.tbl



|   |                |           |
|---|----------------|-----------|
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| FILE NAME = D:\60101\shd-det-swramps-03.dgn | DRAWN - DMS    | REVISED - |
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| PLOT DATE = 3/29/2018                       | DATE - 3/29/18 | REVISED - |

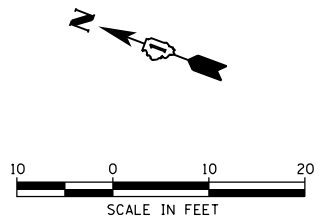
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIDEWALK RAMP DETAILS  
US-20 AT HARMONY ROAD**

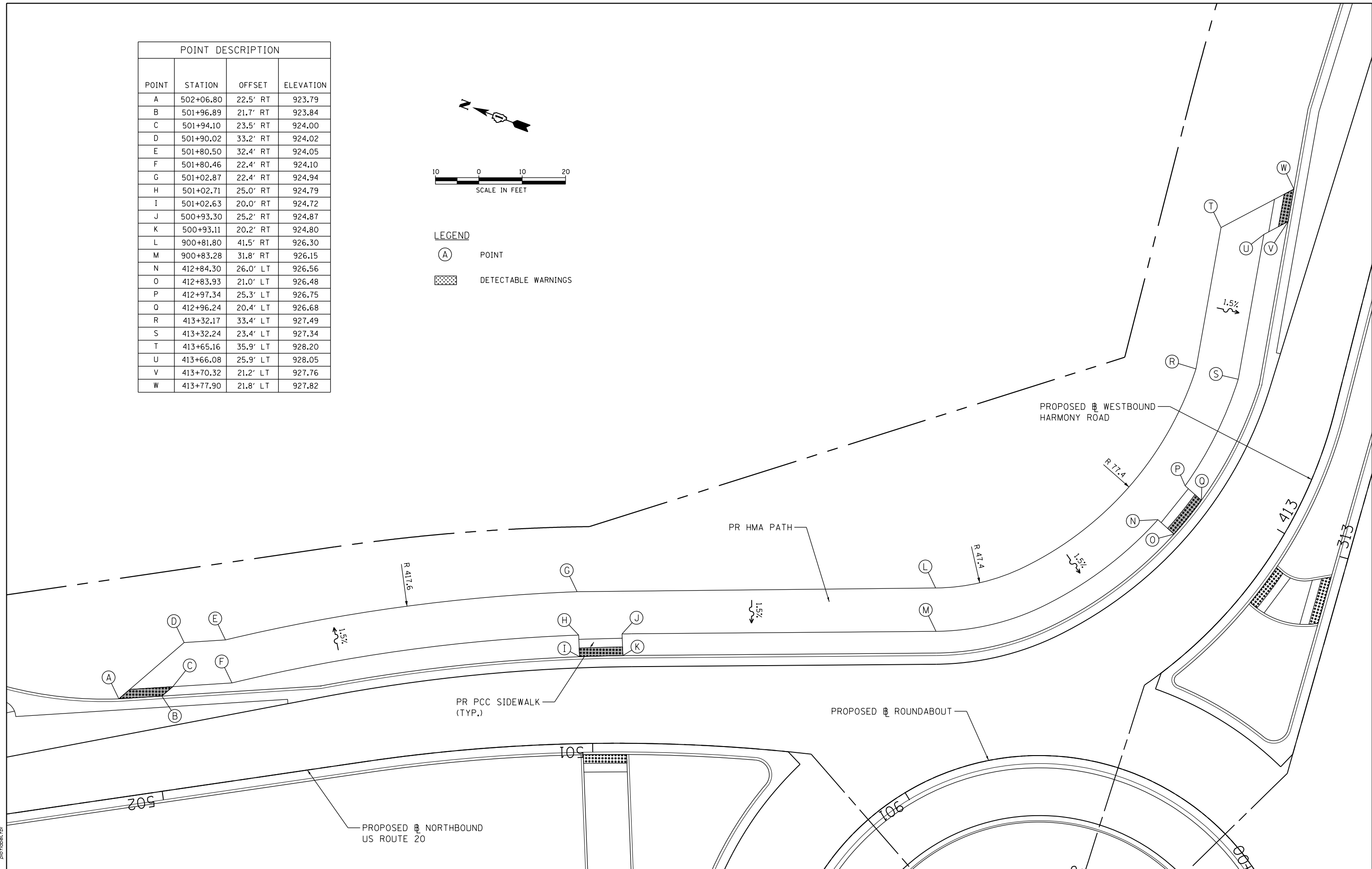
SCALE: 1" = 10'    SHEET NO. 3 OF 4 SHEETS    STA.    TO STA.

|  |              |                |                  |              |
|--|--------------|----------------|------------------|--------------|
| F.A.P. RTE. 525                                  | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135 | SHEET NO. 86 |
| CONTRACT NO. 60T01                               |              |                |                  |              |
| FED. ROAD DIST. NO.    ILLINOIS FED. AID PROJECT |              |                |                  |              |

| POINT DESCRIPTION |           |          |           |
|-------------------|-----------|----------|-----------|
| POINT             | STATION   | OFFSET   | ELEVATION |
| A                 | 502+06.80 | 22.5' RT | 923.79    |
| B                 | 501+96.89 | 21.7' RT | 923.84    |
| C                 | 501+94.10 | 23.5' RT | 924.00    |
| D                 | 501+90.02 | 33.2' RT | 924.02    |
| E                 | 501+80.50 | 32.4' RT | 924.05    |
| F                 | 501+80.46 | 22.4' RT | 924.10    |
| G                 | 501+02.87 | 22.4' RT | 924.94    |
| H                 | 501+02.71 | 25.0' RT | 924.79    |
| I                 | 501+02.63 | 20.0' RT | 924.72    |
| J                 | 500+93.30 | 25.2' RT | 924.87    |
| K                 | 500+93.11 | 20.2' RT | 924.80    |
| L                 | 900+81.80 | 41.5' RT | 926.30    |
| M                 | 900+83.28 | 31.8' RT | 926.15    |
| N                 | 412+84.30 | 26.0' LT | 926.56    |
| O                 | 412+83.93 | 21.0' LT | 926.48    |
| P                 | 412+97.34 | 25.3' LT | 926.75    |
| Q                 | 412+96.24 | 20.4' LT | 926.68    |
| R                 | 413+32.17 | 33.4' LT | 927.49    |
| S                 | 413+32.24 | 23.4' LT | 927.34    |
| T                 | 413+65.16 | 35.9' LT | 928.20    |
| U                 | 413+66.08 | 25.9' LT | 928.05    |
| V                 | 413+70.32 | 21.2' LT | 927.76    |
| W                 | 413+77.90 | 21.8' LT | 927.82    |



**LEGEND**  
 (A) POINT  
 [Hatched Box] DETECTABLE WARNINGS



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 PROJECT CONTACT: [Name]  
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 PLOT DRIVER: IL\_Plotter.dwg  
 PEN TABLE: [File]



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| PLOT DATE = 3/29/2018                        | DATE - 3/29/18 | REVISED - |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SIDEWALK RAMP DETAILS  
 US-20 AT HARMONY ROAD**

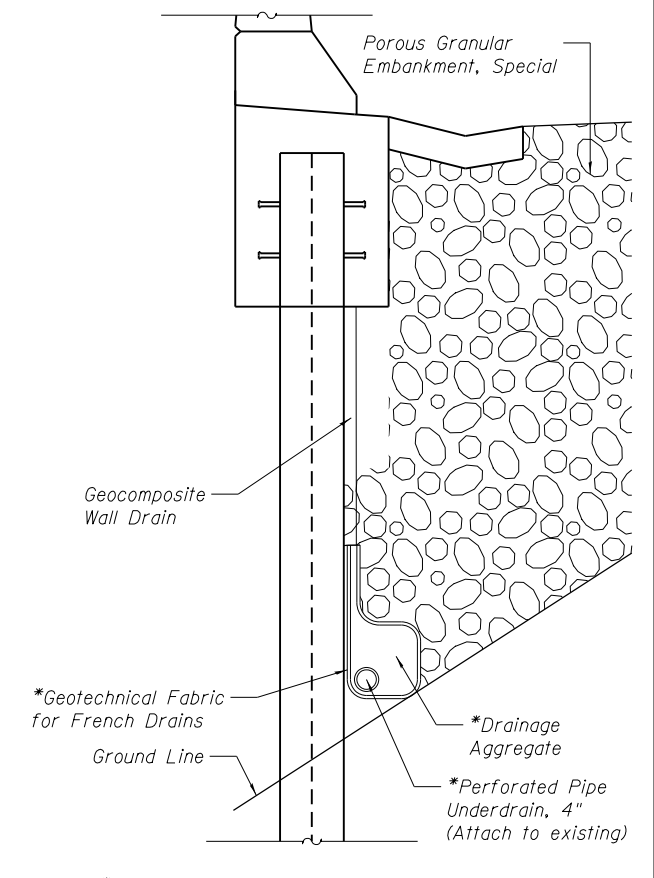
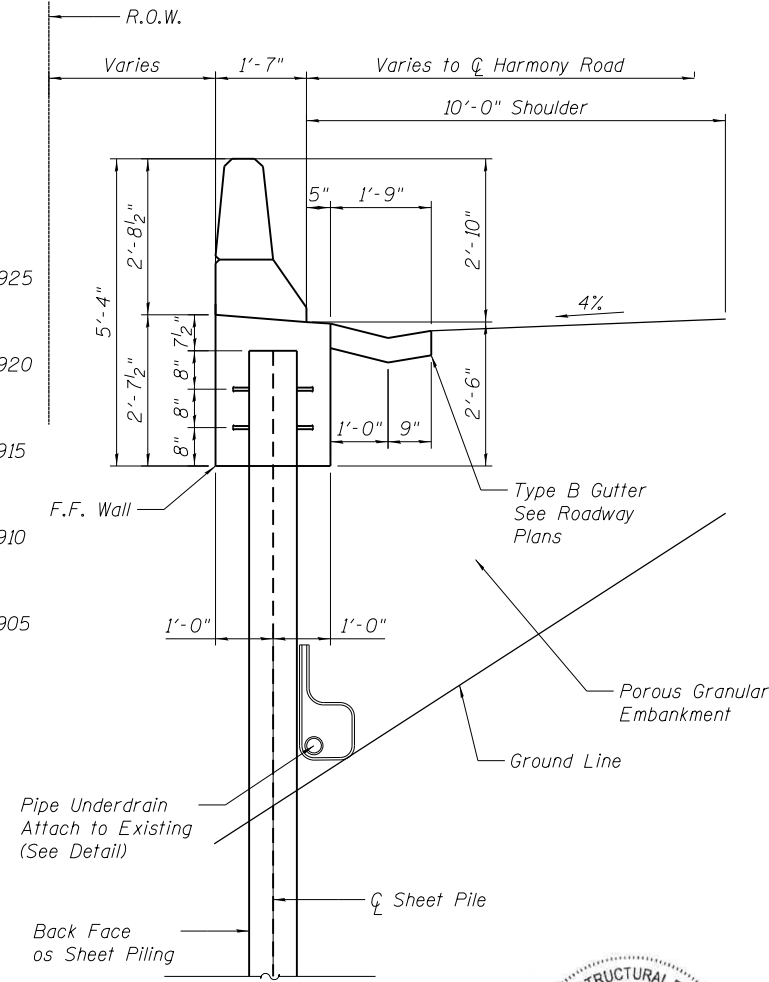
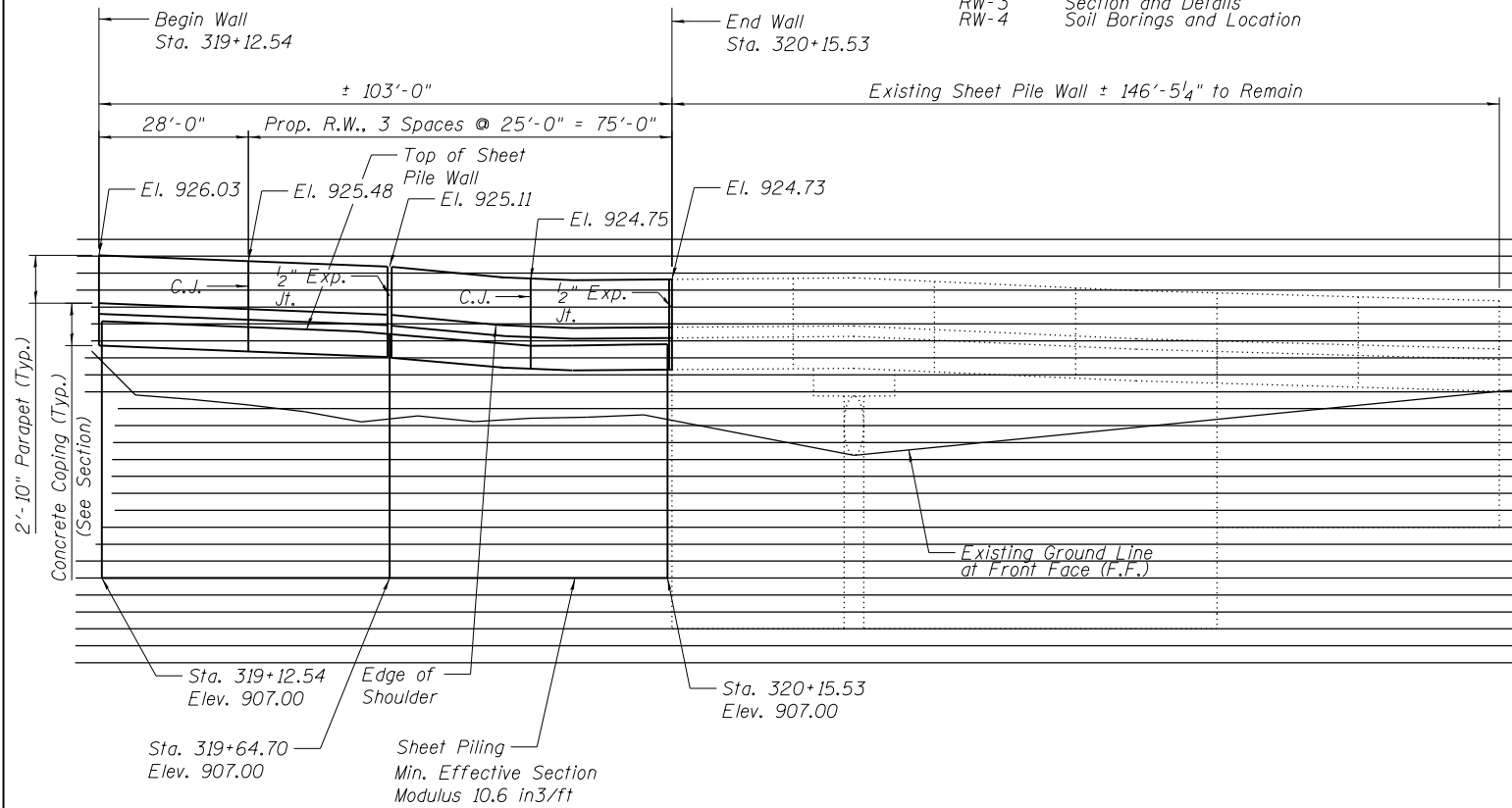
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|---|--------------|----------------|------------------|--------------|
| F.A.P. RTE. 525                               | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135 | SHEET NO. 87 |
| CONTRACT NO. 60T01                            |              |                |                  |              |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |              |                |                  |              |

SCALE: 1" = 10' SHEET NO. 4 OF 4 SHEETS STA. TO STA.

Bench Mark:  
 5/8" I.R. set near edge of aggregate driveway E. side of Harmony Road, approx.  
 700' E. of Intersection of U.S. Route 20, Elev. 927.155 (Sta. 112+00, 25' Rt.)

**INDEX OF SHEETS**

- RW-1 Retaining Wall General Plan, Elevation & Typical Sections
- RW-2 Elevation and Details
- RW-3 Section and Details
- RW-4 Soil Borings and Location

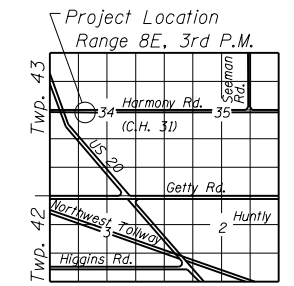
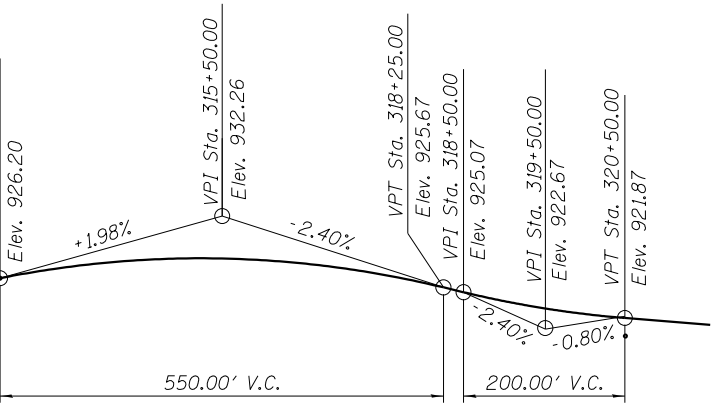
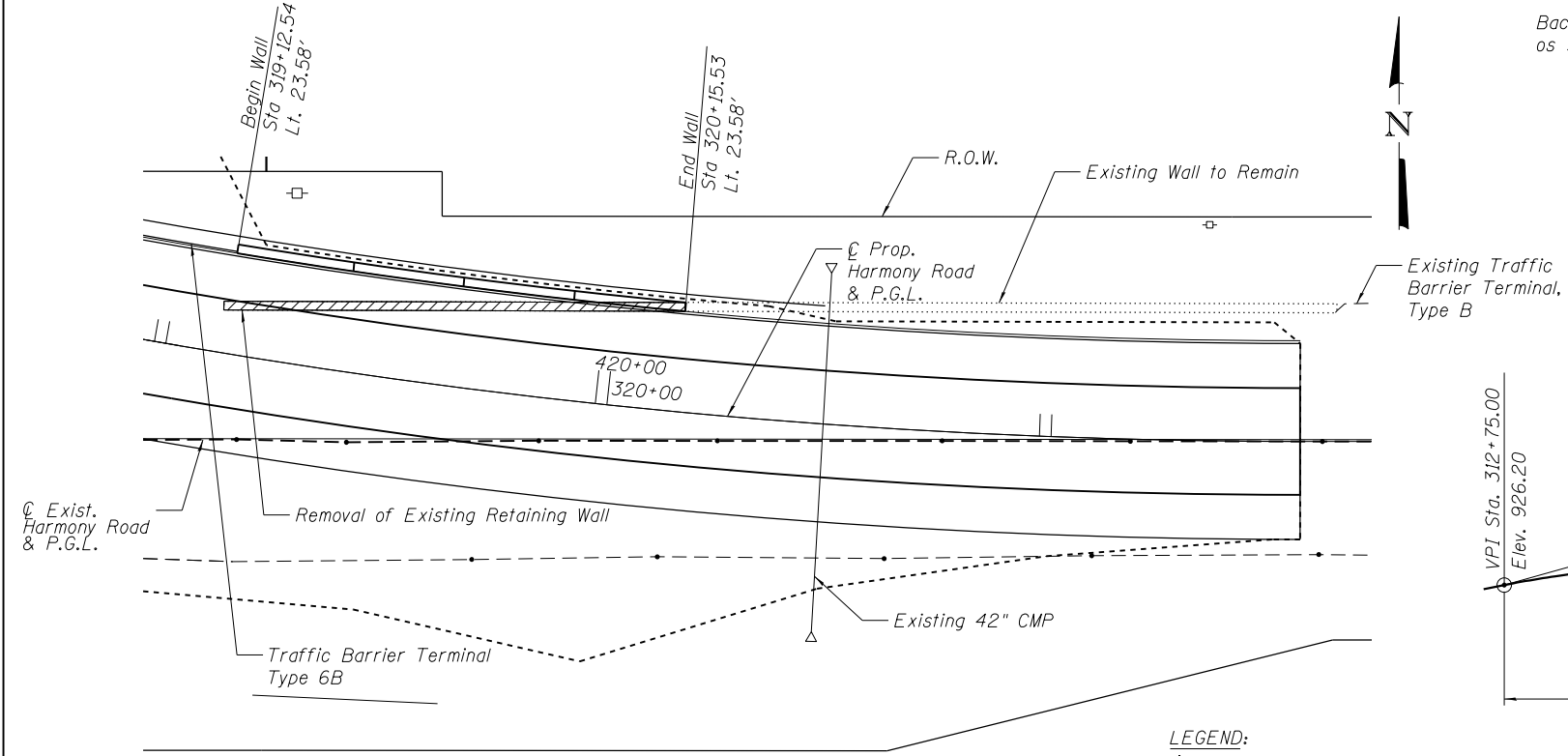


\* Included in the cost of "Pipe Underdrain, 4"

**PIPE UNDERDRAIN DETAIL**

**TOTAL BILL OF MATERIAL**

| ITEM                                | UNIT    | QUANTITY |
|-------------------------------------|---------|----------|
| Concrete Structures                 | Cu. Yd. | 30.2     |
| Stud Shear Connectors               | Each    | 116      |
| Reinforcement Bars, Epoxy Coated    | Pound   | 4,150    |
| Permanent Steel Sheet Piling        | Sq. Ft. | 1,545    |
| Pipe Underdrains for Structures, 4" | Foot    | 111.0    |
| Porous Granular Embankment          | Cu. Yd. | 49.6     |
| Geocomposite Wall Drain             | Sq. Yd. | 148.8    |
| Removal of Existing Structures      | Each    | 1        |



**HIGHWAY CLASSIFICATION**

Harmony Road (C.H. 31).  
 Functional Class: Arterial  
 ADT: 2,355 (2000); 3,300 (2020)  
 DHV: 100  
 Design Speed: 50 m.p.h.  
 Posted Speed: 50 m.p.h.  
 Two-Way Traffic  
 Directional Distribution:

**DESIGN STRESSES**

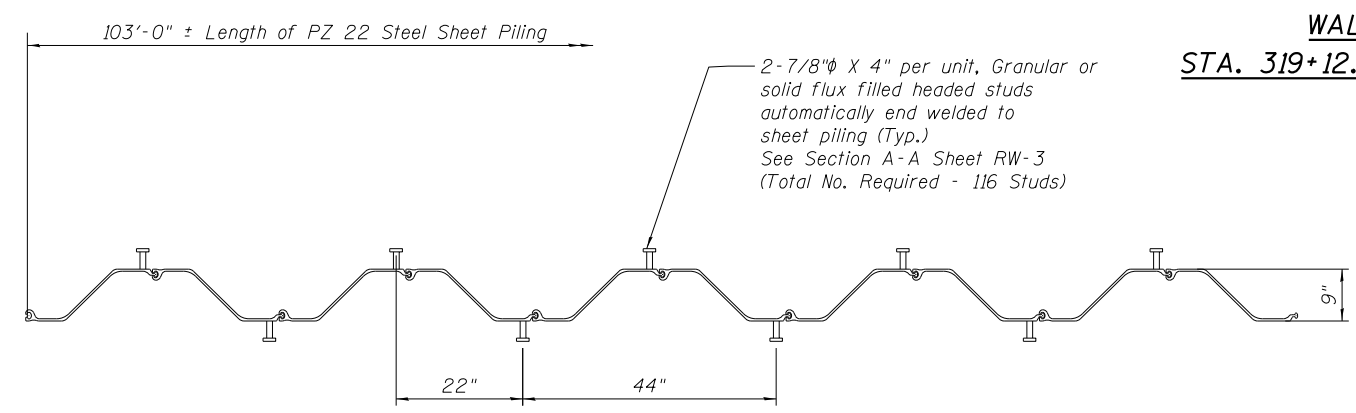
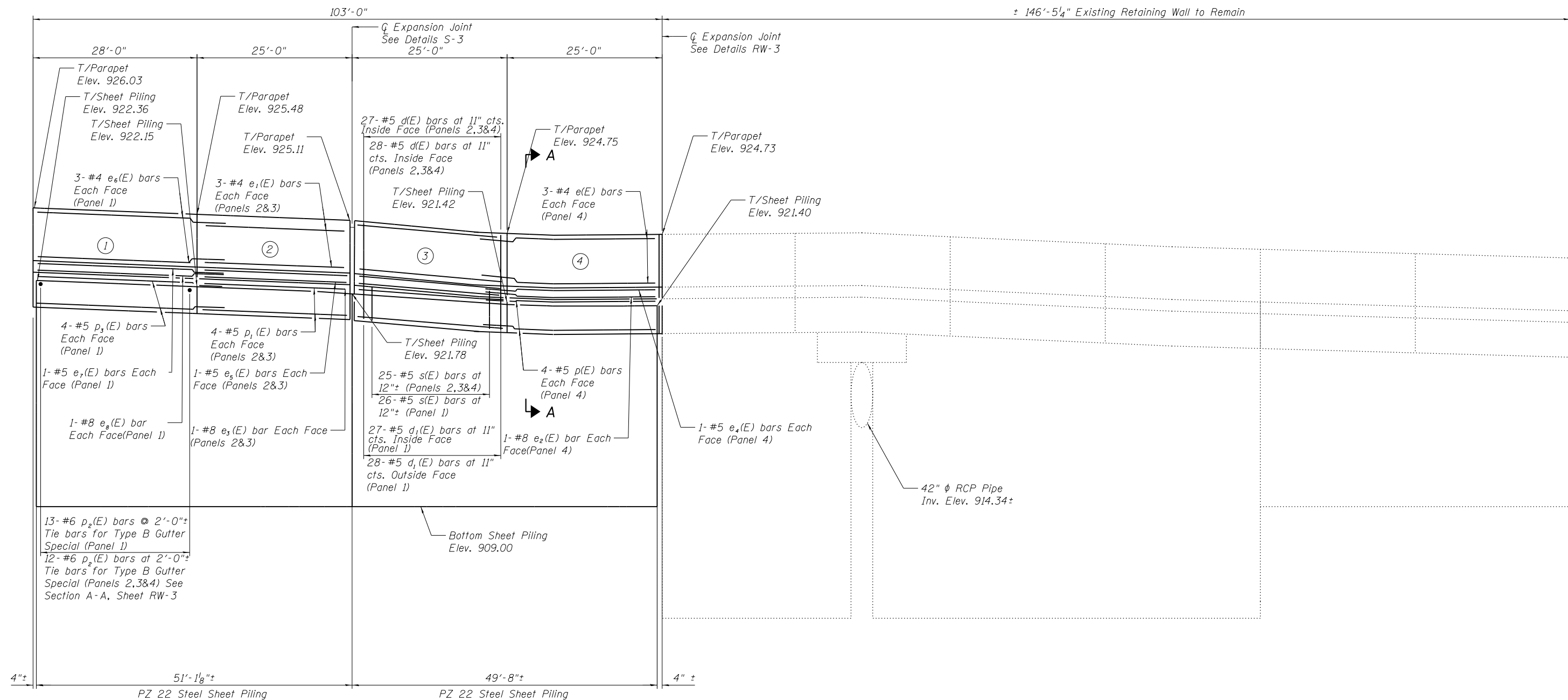
**FIELD UNITS**  
 f'c = 3,500 psi  
 fy = 60,000 psi (Reinforcement)  
 fy = 50,000 psi (M270 Grade 50)

**DESIGN SPECIFICATIONS**

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

- LEGEND:**
- ◆ Boring Location (See Boring Sheet, RW-4)
  - ▨ Removal of Existing Retaining Wall





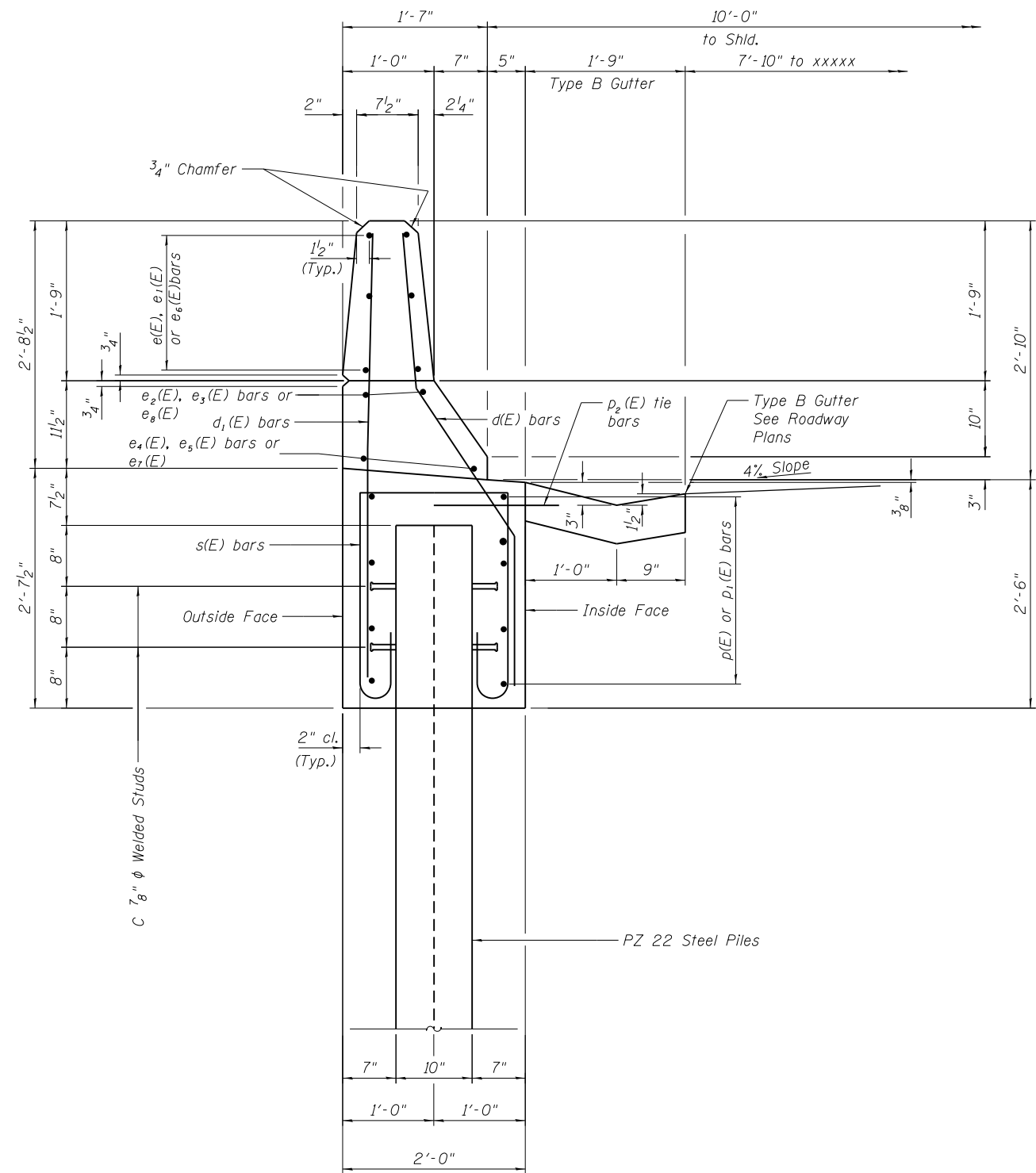
**PZ 22 STEEL SHEET PILING**

**WALL ELEVATION**  
**STA. 319+12.54 TO STA. 320+15.53**

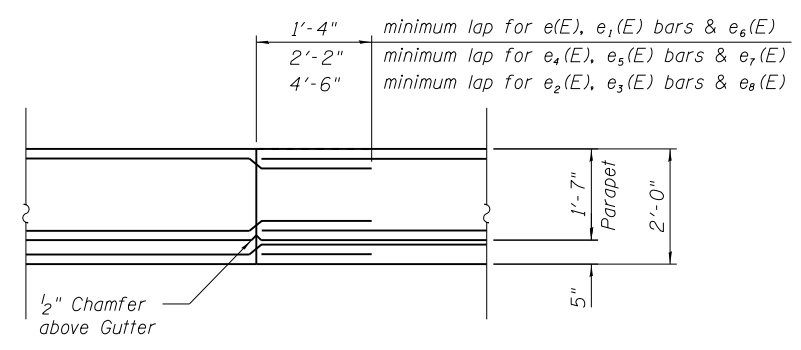
**NOTES:**

Reinforcement Bars shall conform to the requirements of AASHTO M-31, M-42 or M-53, Grade 60  
Reinforcement Bars designated(E) shall be epoxy coated.  
For Stations and Offsets of Wall Panels See Sheet RW-1. Stations and offsets are based on Front Face (F.F) of wall.  
Minimum lap splices shall be 1'4" for #4 bars, 2'-2" for #5 bars and 4'-6" for #8 bars.  
For Bill of Material. Section A-A, Construction and Expansion Joint Details see Sheet RW-3

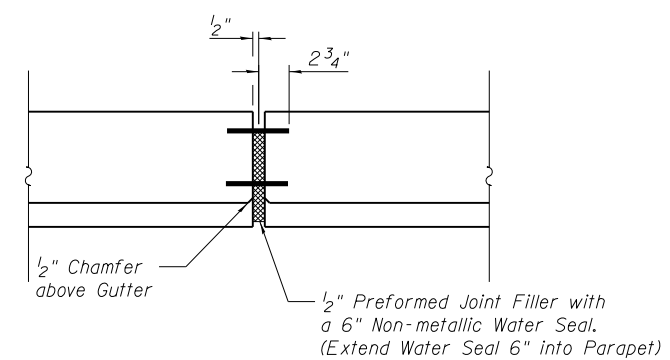
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|             | CHECKED - GEK | REVISD -       | 525      |   |                              | 11-N                      | MCHENRY | 135    | 89           |           |  |
|             | PLOT SCALE =  | DRAWN - MJL    | REVISD - |   |                              | <b>CONTRACT NO. 60T01</b> |         |        |              |           |  |
|             | PLOT DATE =   | CHECKED - GEK  | REVISD - |   |                              | ILLINOIS FED. AID PROJECT |         |        |              |           |  |



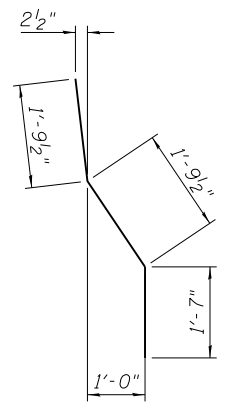
**SECTION A-A**



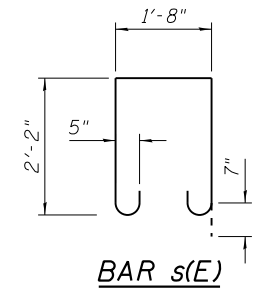
**CONSTRUCTION JOINT**



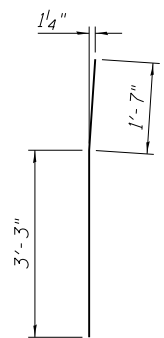
**EXPANSION JOINT**



**BAR d(E)**



**BAR s(E)**



**BAR d1(E)**

**BILL OF MATERIAL**

| Bar                              | No. | Size     | Length  | Shape |
|----------------------------------|-----|----------|---------|-------|
| d(E)                             | 109 | #5       | 5'-2"   | L     |
| d1(E)                            | 109 | #4       | 4'-10"  | L     |
| e(E)                             | 6   | #4       | 26'-4"  | —     |
| e1(E)                            | 12  | #4       | 24'-9"  | —     |
| e2(E)                            | 2   | #8       | 29'-6"  | —     |
| e3(E)                            | 4   | #8       | 24'-9"  | —     |
| e4(E)                            | 2   | #5       | 27'-2"  | —     |
| e5(E)                            | 4   | #5       | 24'-9"  | —     |
| e6(E)                            | 6   | #4       | 29'-3"  | —     |
| e7(E)                            | 2   | #5       | 28'-9"  | —     |
| e8(E)                            | 2   | #8       | 30'-11" | —     |
| s(E)                             | 101 | #5       | 7'-2"   | U     |
| p(E)                             | 8   | #5       | 27'-2"  | —     |
| p1(E)                            | 16  | #5       | 24'-4"  | —     |
| p2(E)                            | 49  | #6       | 2'-0"   | —     |
| p3(E)                            | 8   | #5       | 28'-7"  | —     |
| Reinforcement Bars, Epoxy Coated |     | Pound    | 4,150   |       |
| Concrete Structures              |     | Cu. Yds. | 30.2    |       |

\* Reinforcement bars designated (E) shall be epoxy coated

|             |              |                |           |
|-------------|--------------|----------------|-----------|
| FILE NAME = | USER NAME =  | DESIGNED - MJL | REVISED - |
|             |              | CHECKED - GEK  | REVISED - |
|             | PLOT SCALE = | DRAWN - MJL    | REVISED - |
|             | PLOT DATE =  | CHECKED - GEK  | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SECTION AND DETAILS  
RETAINING WALL**

SHEET RW-3 OF RW-4

|                    |         |         |              |           |
|--------------------|---------|---------|--------------|-----------|
| F.A. RTE.          | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
| 525                | 11-N    | MCHENRY | 135          | 90        |
| CONTRACT NO. 60T01 |         |         |              |           |

ILLINOIS FED. AID PROJECT



Illinois Department of Transportation  
Division of Highways  
IDOT

# SOIL BORING LOG

Page 1 of 1

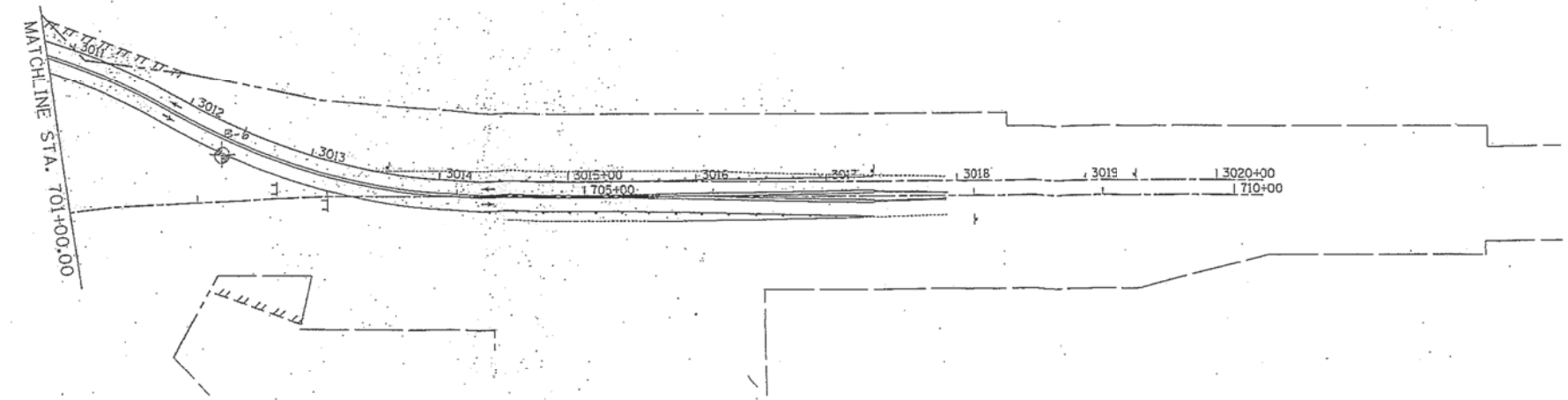
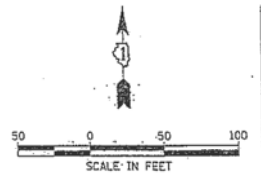
Date 8/23/12

ROUTE FAP 525 (US ROUTE 20) DESCRIPTION US Route 20 @ Harmony Road LOGGED BY M. Esposito

SECTION 11-N LOCATION SW quarter, SEC. 34, TWP. 43N, RNG. 6E

COUNTY McHenry DRILLING METHOD B-80 HAMMER TYPE \_\_\_\_\_

| STRUCT. NO.                                 | DEPTH  | B     | L     | U   | M | Surface Water Elev.        | Stream Bed Elev. |
|---|--------|-------|-------|-----|---|----------------------------|------------------|
| Station                                     | (ft)   | (/6') | (tsf) | (%) |   | ft                         | ft               |
| BORING NO. <u>B-6</u>                       |        |       |       |     |   | Groundwater Elev.:         |                  |
| Station <u>3012+45.34</u>                   |        |       |       |     |   | First Encounter _____      | Dry ft           |
| Offset <u>14.66ft</u>                       |        |       |       |     |   | Upon Completion _____      | Dry ft           |
| Ground Surface Elev. <u>926.57</u>          |        |       |       |     |   | After <u>24</u> Hrs. _____ | Dry ft           |
| Hard Brown SILTY CLAY (Topsoil)             | 925.82 |       | 4.0   | 14  |   |                            |                  |
| Very Stiff to Hard Brown SILTY C-AY         |        |       | 4.0   | 12  |   |                            |                  |
|   |        |       | 4.5   | 12  |   |                            |                  |
|   |        |       | 4.5   | 12  |   |                            |                  |
|   |        |       | 3.5   | 12  |   |                            |                  |
|   |        |       | 2.5   | 13  |   |                            |                  |
|   |        |       | 2.3   | 14  |   |                            |                  |
|   |        |       | 3.0   | 14  |   |                            |                  |
|   |        |       | 3.5   | 13  |   |                            |                  |
|   |        |       | 3.5   | 14  |   |                            |                  |
|   |        |       | 2.5   | 12  |   |                            |                  |
|   |        |       | 3.3   | 13  |   |                            |                  |
| Note: Qu readings performed by Penetrometer | 916.57 | -10   |       |     |   |                            |                  |
| End of Boring                               |        |       |       |     |   |                            |                  |



|                         |           |
|-------------------------|-----------|
| DESIGNED - J. ATTANASEO | REVISED - |
| CHECKED - T. HAMILTON   | REVISED - |
| DATE - 5/3/2012         | REVISED - |

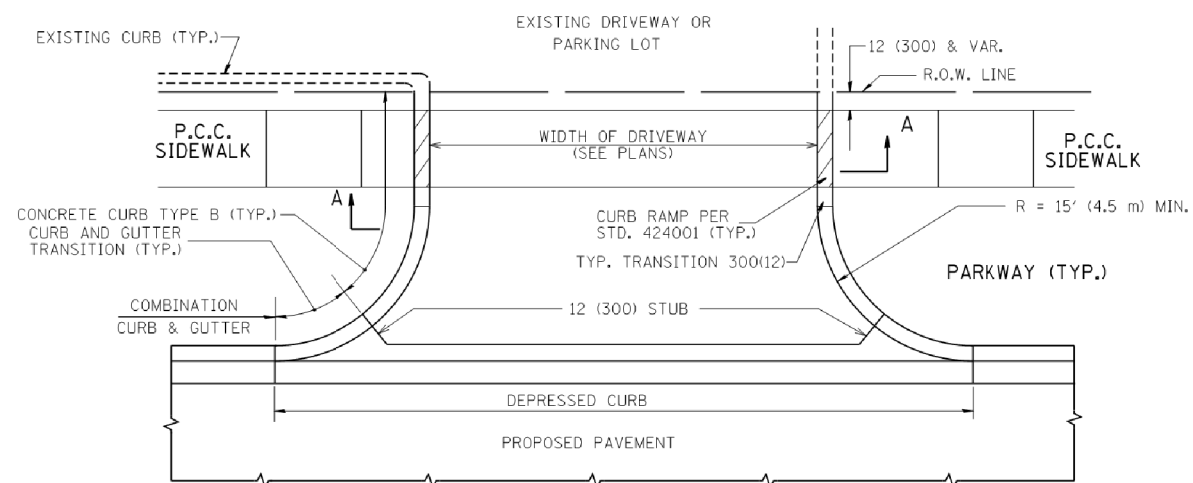
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SOIL BORING EXHIBIT  
HARMONY ROAD TEMPORARY RUNDOWN  
SCALE: 1" = 50' - SHEET NO. 2 OF 2 SHEETS | STA. TO STA.

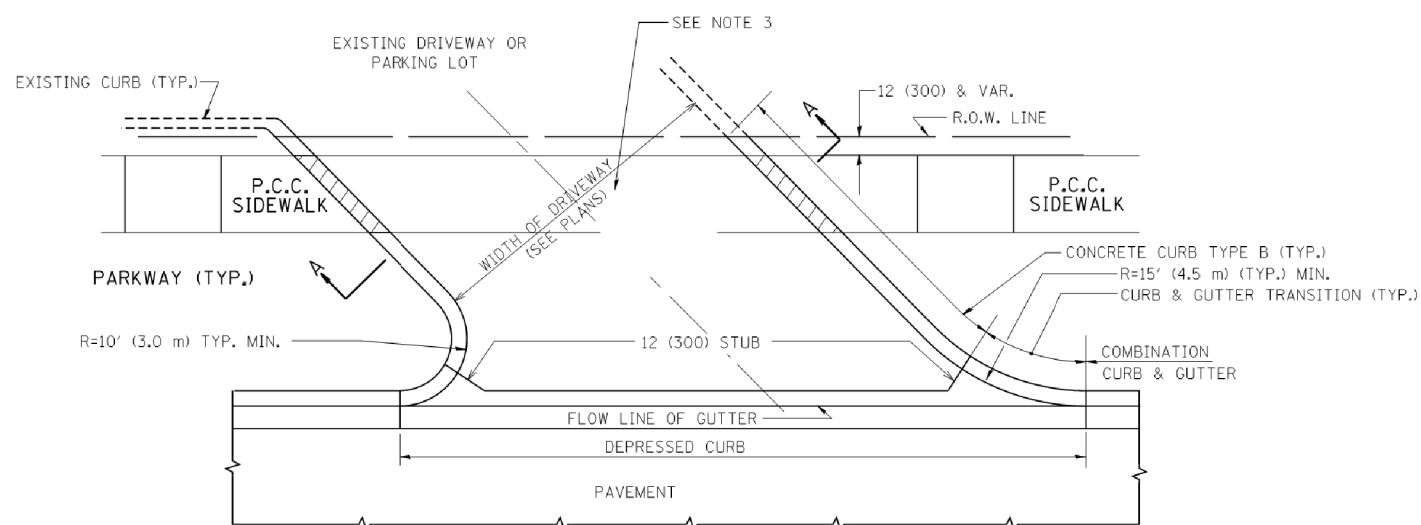
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|--------------------|---------|---------|---------------------------|-----------|
| 525                | 11-N    | MCHENRY | 112                       | 109       |
| CONTRACT NO. 60T01 |         |         | ILLINOIS FED. AID PROJECT |           |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

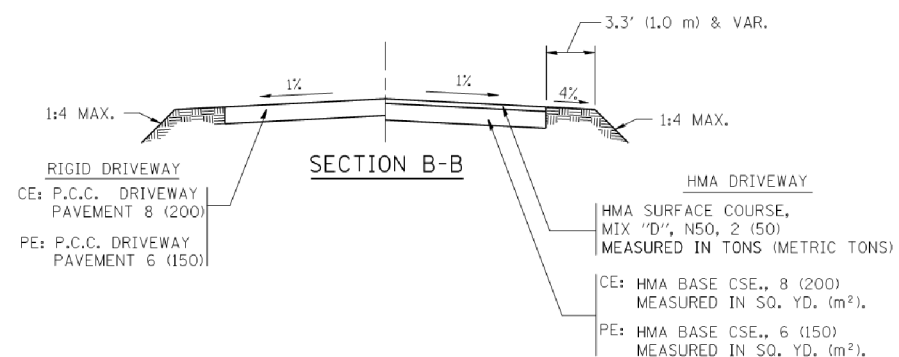
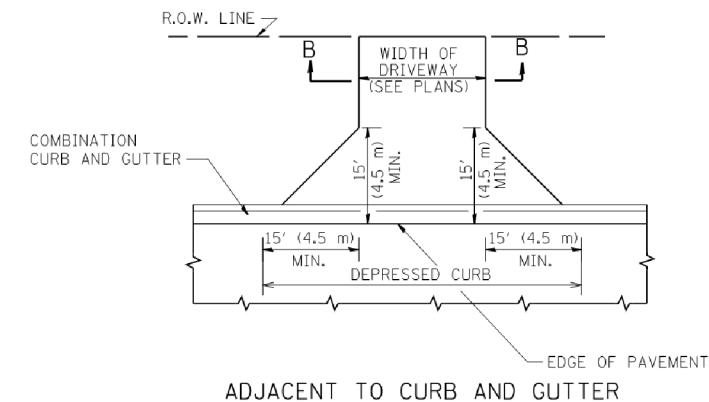
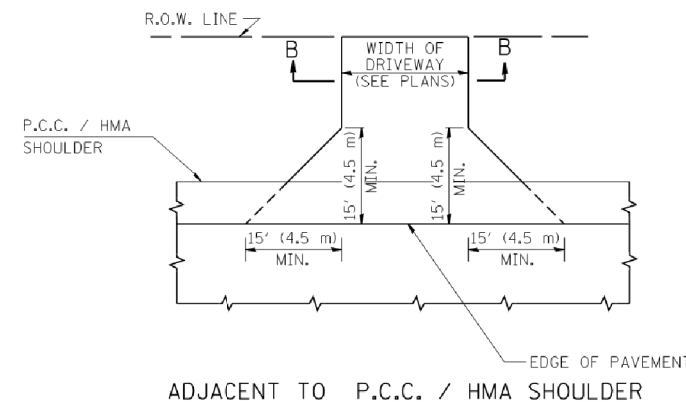
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| FILE NAME = | USER NAME = | DESIGNED - MJL | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | SOIL BORINGS AND LOCATION<br>RETAINING WALLS | F.A.P. RTE.        | SECTION | COUNTY  | TOTAL SHEETS              | SHEET NO. |  |
|             |             | CHECKED - GEK  | REVISED - |   |  | 525                | 11-N    | MCHENRY | 135                       | 91        |  |
|             |             | DRAWN - MJL    | REVISED - |   |  | CONTRACT NO. 60T01 |         |         | ILLINOIS FED. AID PROJECT |           |  |
|             |             | CHECKED - GEK  | REVISED - |   |  | SHEET RW-4 OF RW-4 |         |         |                           |           |  |



WITH CONCRETE CURB, TYPE B



WITH CONCRETE CURB, TYPE B



RURAL FIELD ENTRANCE (FE)

HMA SURFACE COURSE, MIX 'D', N50, 2 (50) MEASURED IN TONS (METRIC TONS)

AGGREGATE BASE CSE., TYPE B, 8 (200) MEASURED IN SQ. YD. (m<sup>2</sup>).

GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE 'HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS'. FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

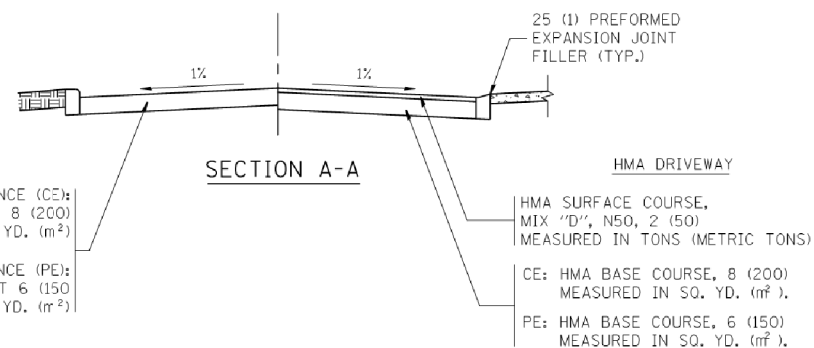
COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.



SECTION A-A

COMPANY NAME: COMPANY NAME  
 PROJECT CONTACT: PROJECT CONTACT  
 DATE PLOTTED: 3/29/2018 9:27:24 AM  
 FILE NAME: D:\pwork\111032\111032.dgn  
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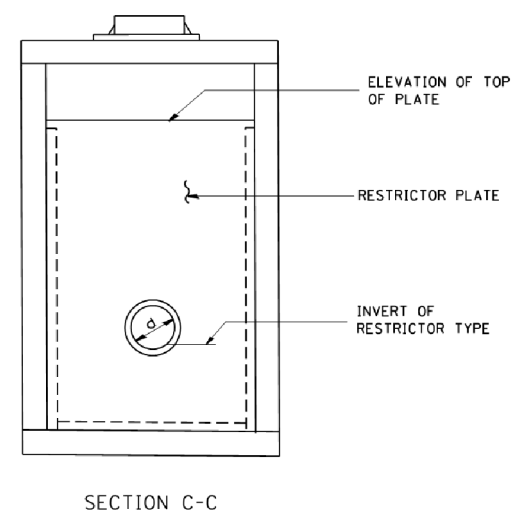
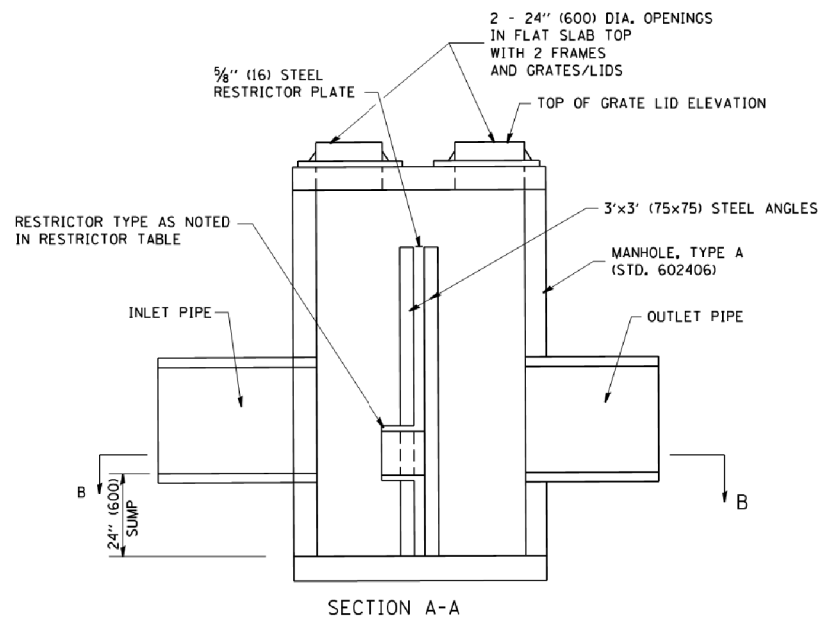
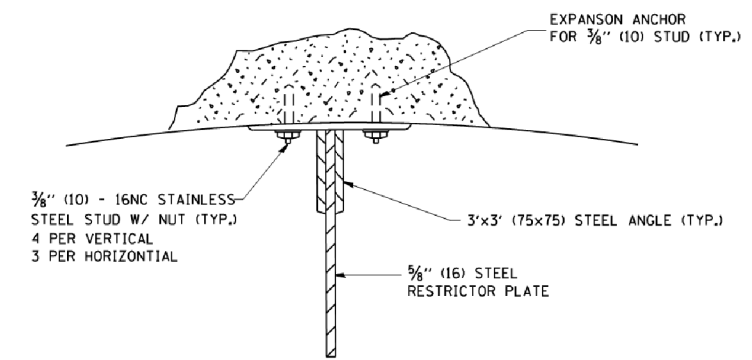
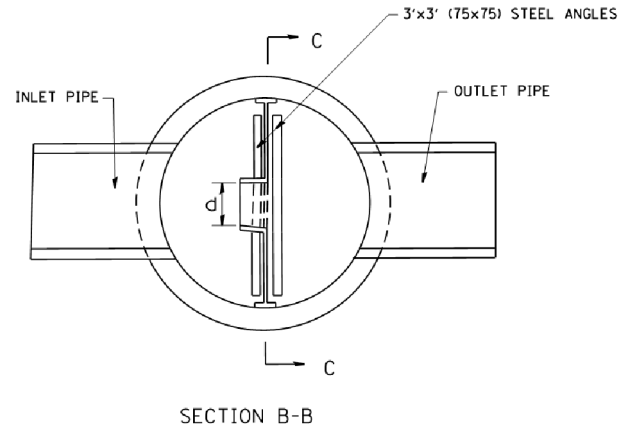
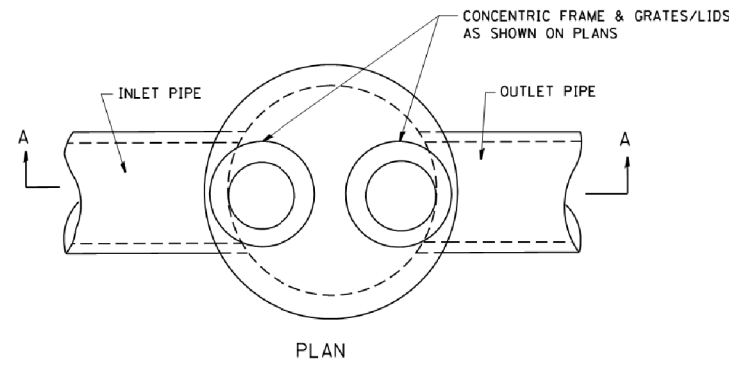
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| cs:\pwork\111032\111032.dgn |                   | DRAWN -            | REVISED - R. BORO 01-01-07    |
|                             |                   | CHECKED -          | REVISED - R. BORO 06-11-08    |
|                             |                   | DATE - 11-04-95    | REVISED - R. BORO 09-06-11    |

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

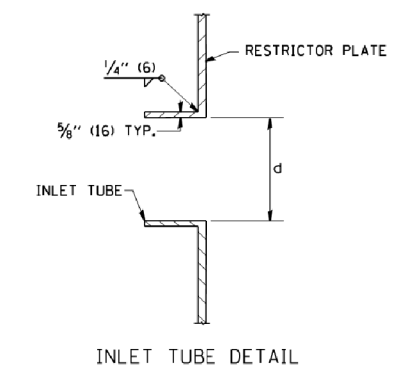
DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W.  
 AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

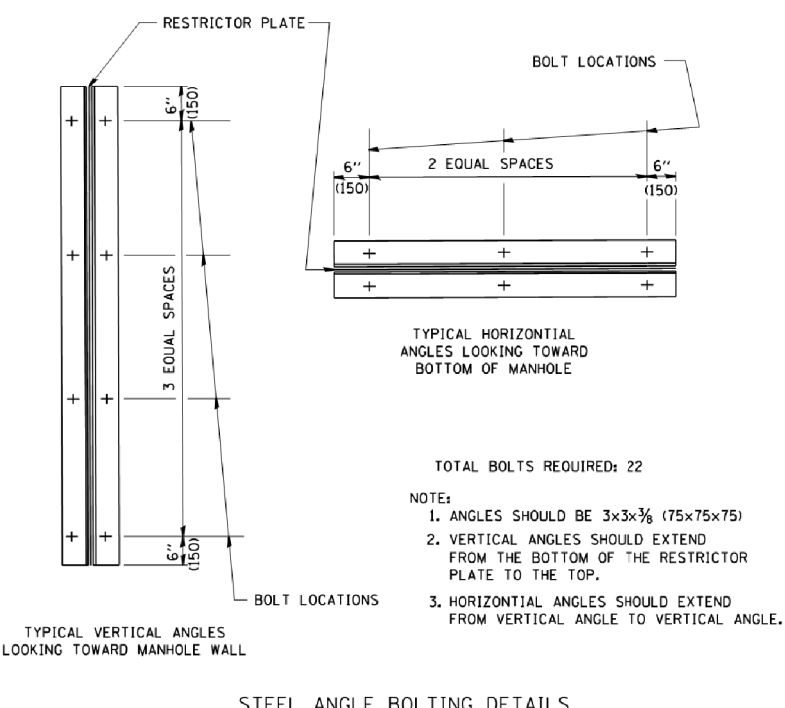
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| F.A.U. RTE.                                     | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
| 525   | 11-N    | MCHENRY | 135          | 92        |
| BD0156-07 (BD-01)                               |         |         | CONTRACT NO. | 60T01     |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |         |         |              |           |



- NOTES:
1. ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.
  2. ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.
  3. BASIS OF PAYMENT: "MANHOLES, TYPE A, 6 FT. (1.8 m)-DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE" EACH



| STATION   | MANHOLE DIAMETER | FRAME AND GRATE | RESTRICTOR TYPE | INSIDE RESTRICTOR TYPE DIAMETER In. (mm) (d) | INVERT OF RESTRICTOR TYPE | ELEVATION OF TOP OF PLATE OVERFLOW |
|-----------|------------------|-----------------|-----------------|--|---------------------------|------------------------------------|
| 800+30.26 | 6 FT             | 2-TYPE 1 OL     | 3               | 6"H x 19"W                                   | 917.75                    | 920.50                             |
|           |                  |                 |                 |  |                           |                                    |
|           |                  |                 |                 |  |                           |                                    |
|           |                  |                 |                 |  |                           |                                    |
|           |                  |                 |                 |  |                           |                                    |
|           |                  |                 |                 |  |                           |                                    |
|           |                  |                 |                 |  |                           |                                    |
|           |                  |                 |                 |  |                           |                                    |
|           |                  |                 |                 |  |                           |                                    |
|           |                  |                 |                 |  |                           |                                    |



| RESTRICTOR TYPE       |             |                     |                    |                    |         |
|-----------------------|-------------|---------------------|--------------------|--------------------|---------|
| 1                     | 2           | 3                   | 4                  | 5                  | 6       |
| RE-ENTRANT TUBE       | SHARP EDGED | SQUARE EDGED        | RE-ENTRANT TUBE    | SQUARE EDGED       | ROUNDED |
|                       |             |                     |                    |                    |         |
| LENGTH: 1/2 TO 1 DIA. |             | STREAM CLEARS SIDES | LENGTH: 2-1/2 DIA. | LENGTH: 2-1/2 DIA. |         |
| C=.52                 | C=.61       | C=.61               | C=.73              | C=.82              | C=.98   |

VALUES OF "C" FOR CIRCULAR AND SQUARE ORIFICES

COMPANY NAME: #COMPANY CONTACTS  
 PROJECT CONTACT: #PROJECT CONTACTS  
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 PEN TABLE: plotlabel.tbl

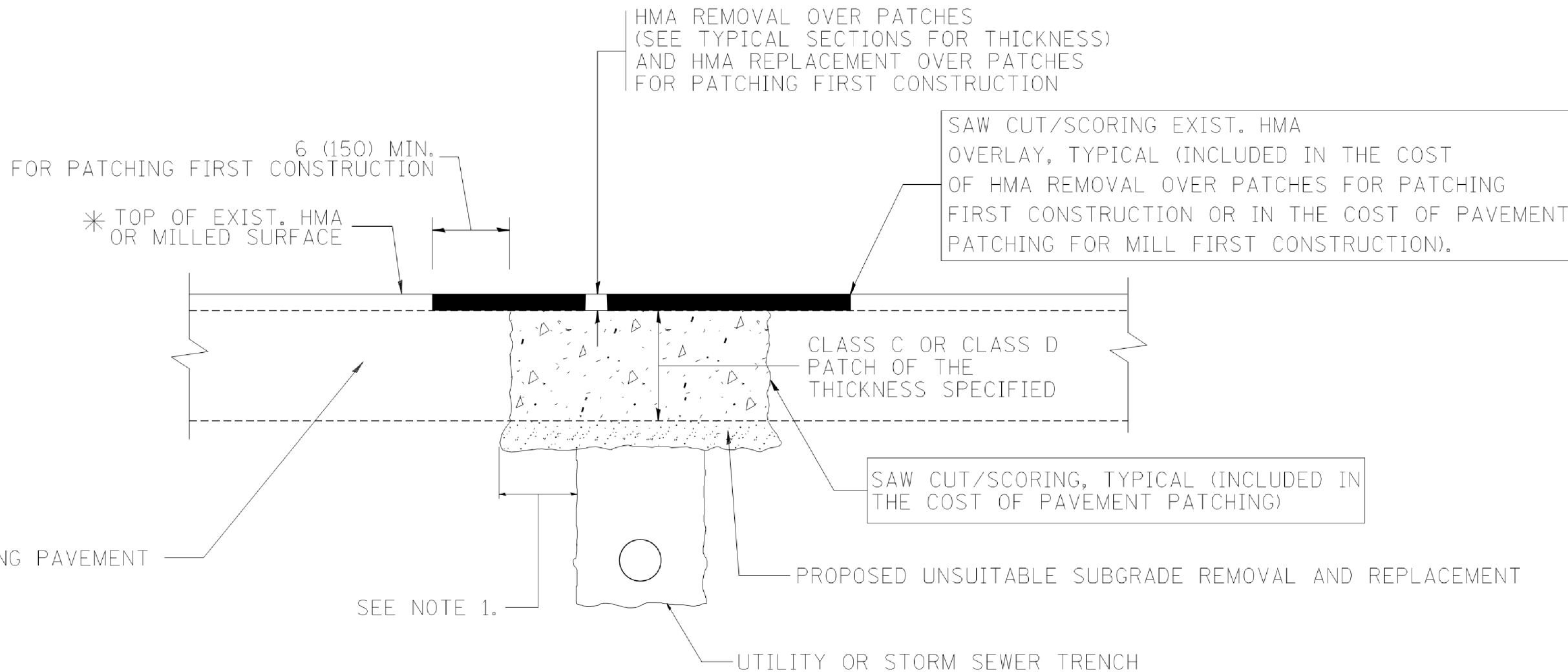
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|                                    |                            | DRAWN -            | REVISED - E. GOMEZ 08-28-00 |
|                                    | PLOT SCALE = 50.000' / IN. | CHECKED -          | REVISED - M. GOMEZ 01-08-01 |
|                                    | PLOT DATE = 1/4/2008       | DATE - 09-09-94    | REVISED -                   |

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

|                               |  |             |                         |              |
|-------------------------------|--|-------------|-------------------------|--------------|
| MANHOLE WITH RESTRICTOR PLATE |  | SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. TO STA. |
|-------------------------------|--|-------------|-------------------------|--------------|

|   |         |              |              |           |
|---|---------|--------------|--------------|-----------|
| F.A.U. RTE.                                     | SECTION | COUNTY       | TOTAL SHEETS | SHEET NO. |
| 525   | 11-N    | MCHENRY      | 135          | 93        |
| BD600-04 (BD-12)                                |         | CONTRACT NO. | 60701        |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |         |              |              |           |

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.



\* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

**NOTES:**

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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 PROJECT CONTACT: \*PROJECT CONTACTS\*  
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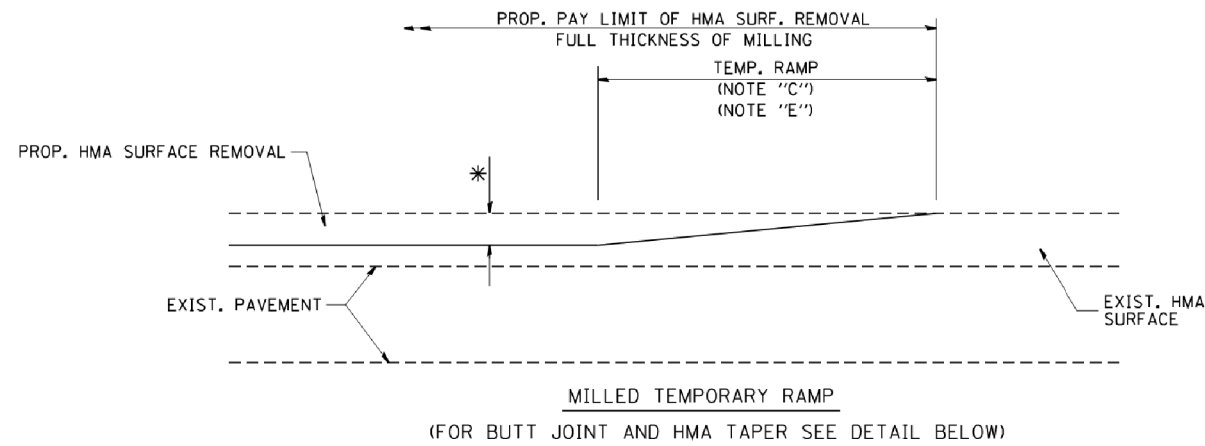
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|                                   |                     | PLOT SCALE = 50.000' / IN. | REVISED - R. BORO 09-04-07  |
|                                   |                     | PLOT DATE = 10/27/2008     | REVISED - K. ENG 10-27-08   |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

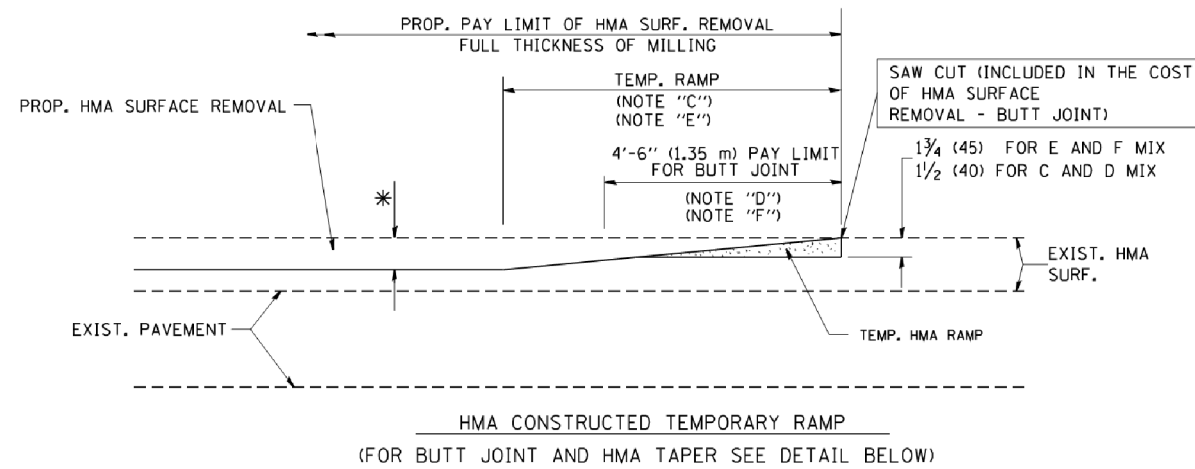
**PAVEMENT PATCHING FOR  
 HMA SURFACED PAVEMENT**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

| F.A.U. RTE.                                     | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---|---------|---------|--------------|-----------|
| 525   | 11-N    | MCHENRY | 135          | 94        |
| <b>BD400-04 (BD-22)</b>                         |         |         | CONTRACT NO. | 60701     |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |         |         |              |           |

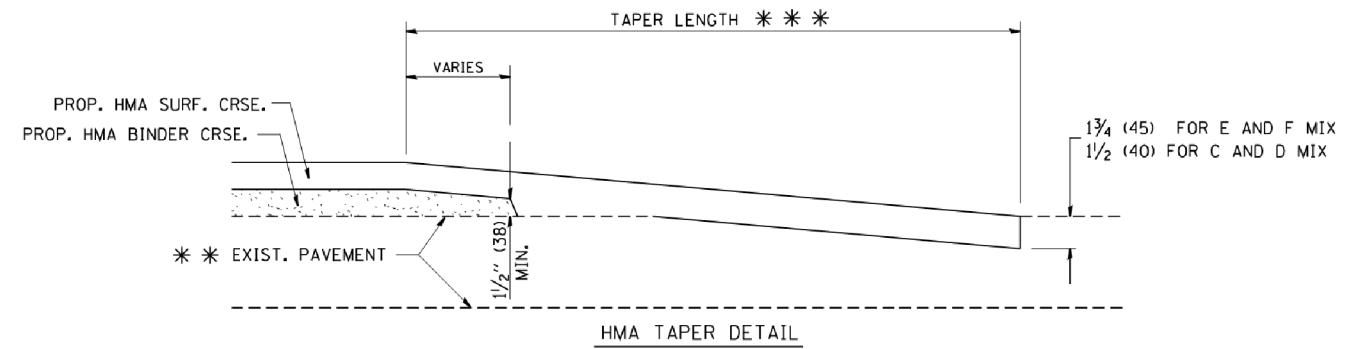
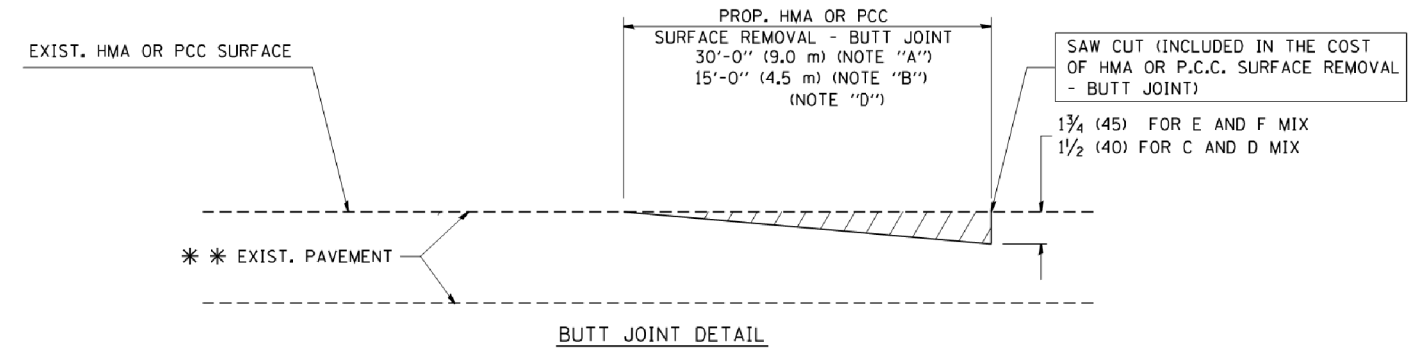


**OPTION 1**



**OPTION 2**

**TYPICAL TEMPORARY RAMP**



**TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY**

\* \* PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

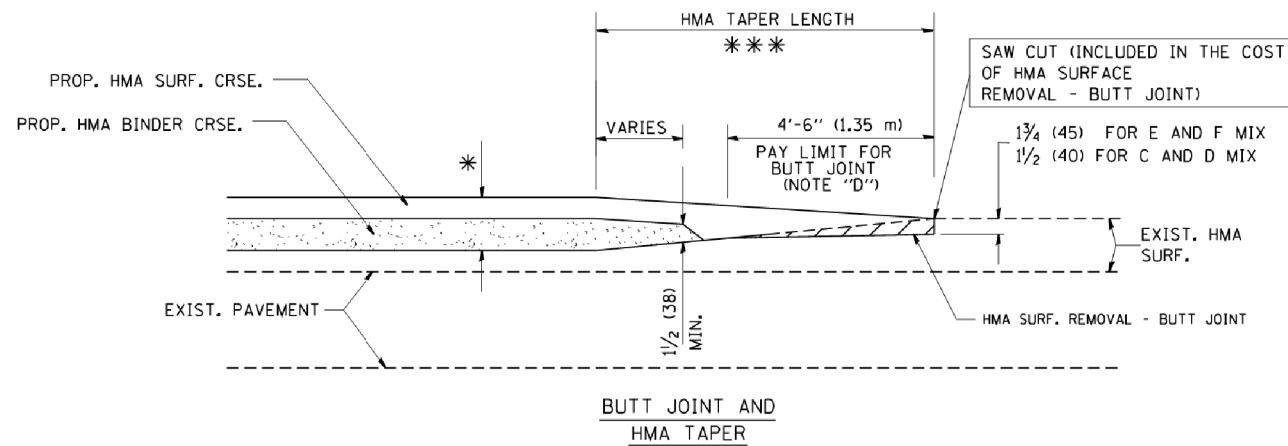
**NOTES**

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
  - B: MINOR SIDE ROADS.
  - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
  - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
  - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
  - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
  - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- \* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- \* \* \* 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")  
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

**BASIS OF PAYMENT:**

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.



**TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING**

COMPANY NAME: \* COMPANY NAME \*  
PROJECT CONTACT: \* PROJECT CONTACT \*  
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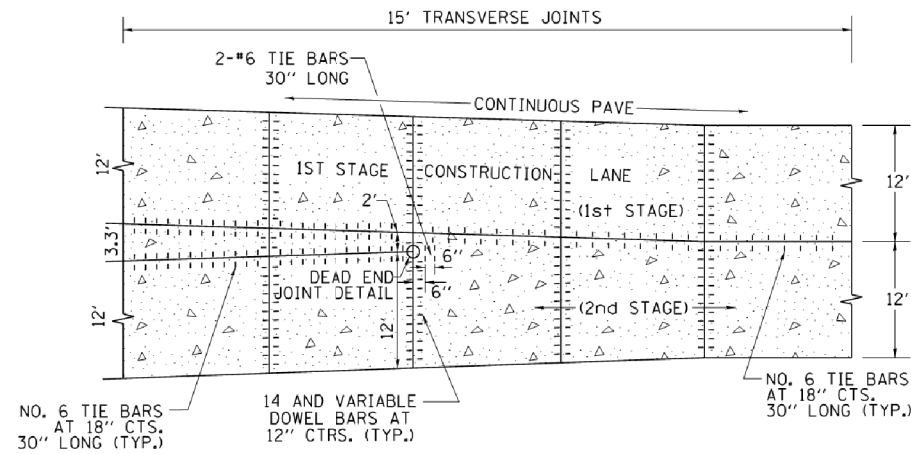
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

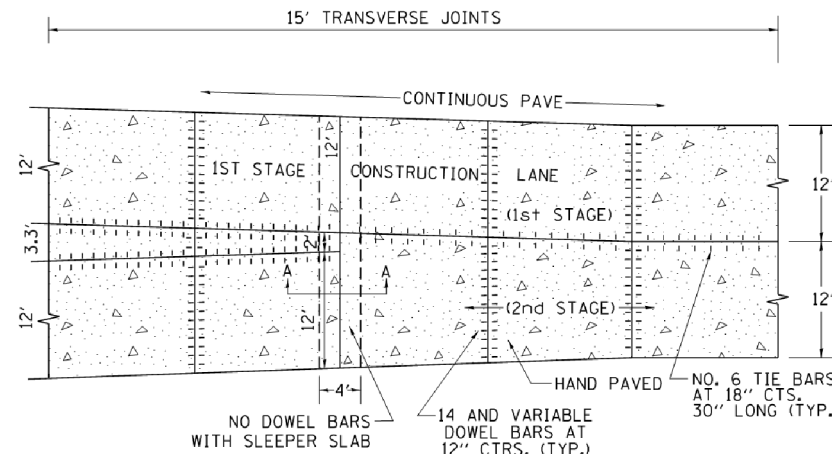
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| <b>BUTT JOINT AND<br/>HMA TAPER DETAILS</b> |                                      |
| SCALE: NONE                                 | SHEET NO. 1 OF 1 SHEETS STA. TO STA. |

|   |         |         |              |           |
|---|---------|---------|--------------|-----------|
| F.A.U. RTE.                                     | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
| 525   | 11-N    | MCHENRY | 135          | 95        |
| <b>BD400-05 BD32</b>                            |         |         | CONTRACT NO. | 60T01     |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |         |         |              |           |

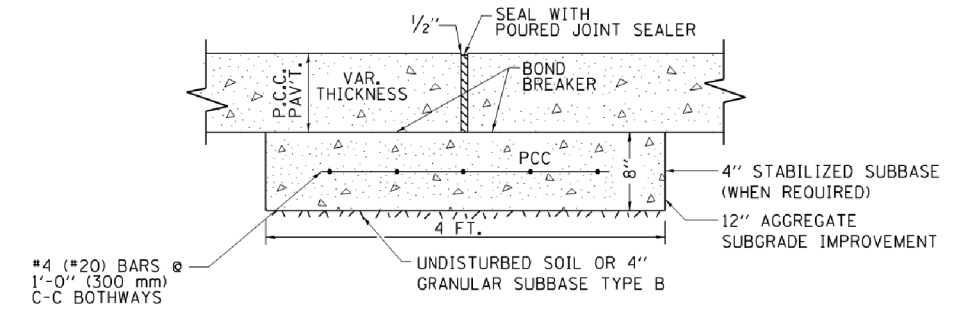
# LANE REDUCTION WITH A CONTINUOUS PAVEMENT FOR 1ST STAGE WITH DEAD END JOINT OR SLEEPER SLAB



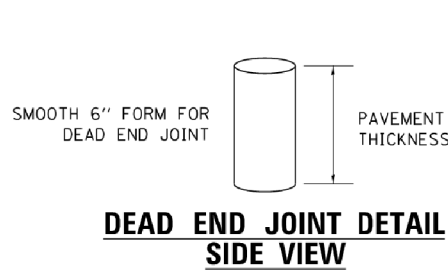
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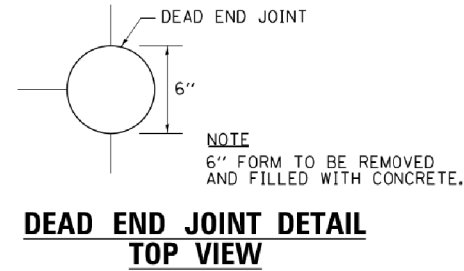
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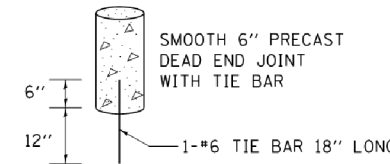
PROPOSED SECTION A-A OF SLEEPER SLAB



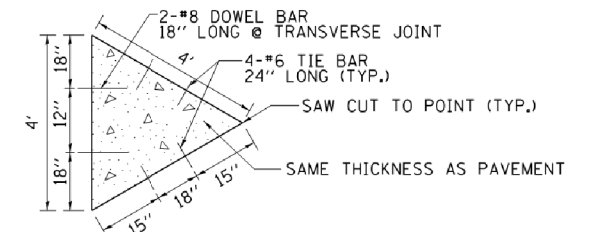
DEAD END JOINT DETAIL  
SIDE VIEW



DEAD END JOINT DETAIL  
TOP VIEW

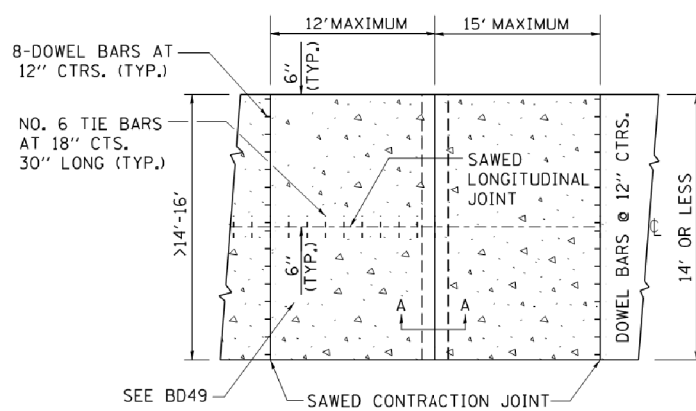


DEAD END JOINT PRECAST DETAIL

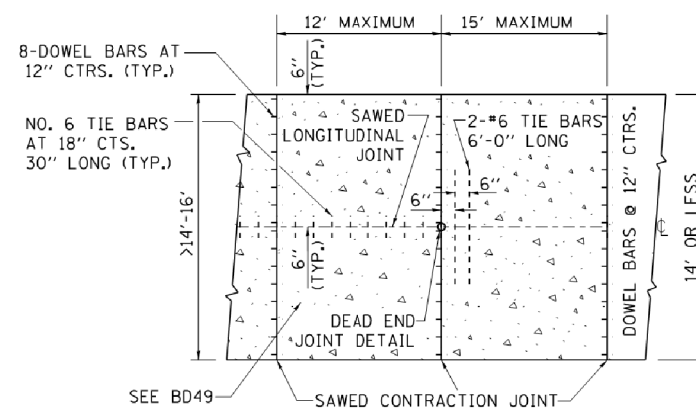


SAW-CUT MERGE DETAIL

## TRANSITION DETAILS FOR CENTERLINE SAW CUT FOR DEAD END JOINT OR SLEEPER SLAB FOR VARIABLE JOINTED PCC PAVEMENT FOR LANES OVER 14'

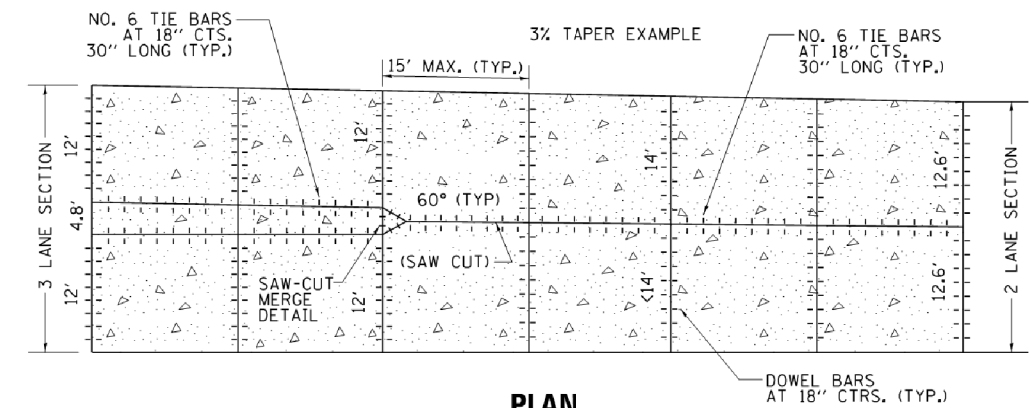


PLAN USING SLEEPER SLAB



PLAN USING DEAD END JOINT

## INTERIOR LANE REDUCTION FOR THREE LANE SECTION IN PCC PAVEMENT



PLAN

### NOTES:

1. SAW-CUT MERGE DETAIL: THE 4' TRIANGLE SECTION COULD BE PRECAST OR CAST IN PLACE AND PROPERLY PLACED WITH TIE BARS AND PROPERLY ALIGNED DOWEL BARS.
2. TRANSVERSE JOINT SPACING MAY DECREASE DEPENDING ON PAVEMENT THICKNESS BELOW 9.5'. USE FORMULA JOINT SPACING IN (FT) = 2 X PAVEMENT THICKNESS IN (IN) - 4.
3. USE SAW-CUT MERGE DETAIL IN SITUATIONS WHERE THERE IS NO STAGING.
4. PRECAST DEAD END JOINT SET IN PLACE WITH DRILLED HOLE INTO SUBBASE/SUBGRADE FOR #6 TIE BAR.
5. DEAD END JOINTS WILL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR PCC PAVEMENT.
6. SLEEPER SLAB WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR SLEEPER SLAB.

COMPANY NAME: #COMPANY NAME#  
PROJECT CONTACT: #PROJECT CONTACT#  
DATE PLOTTED: 5/17/2018 4:16:04 PM  
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|             | PLOT SCALE = 50.0000' / in. | DATE - 03/07/12     | REVISED -               |
|             | PLOT DATE = 11/2/2015       |                     |                         |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

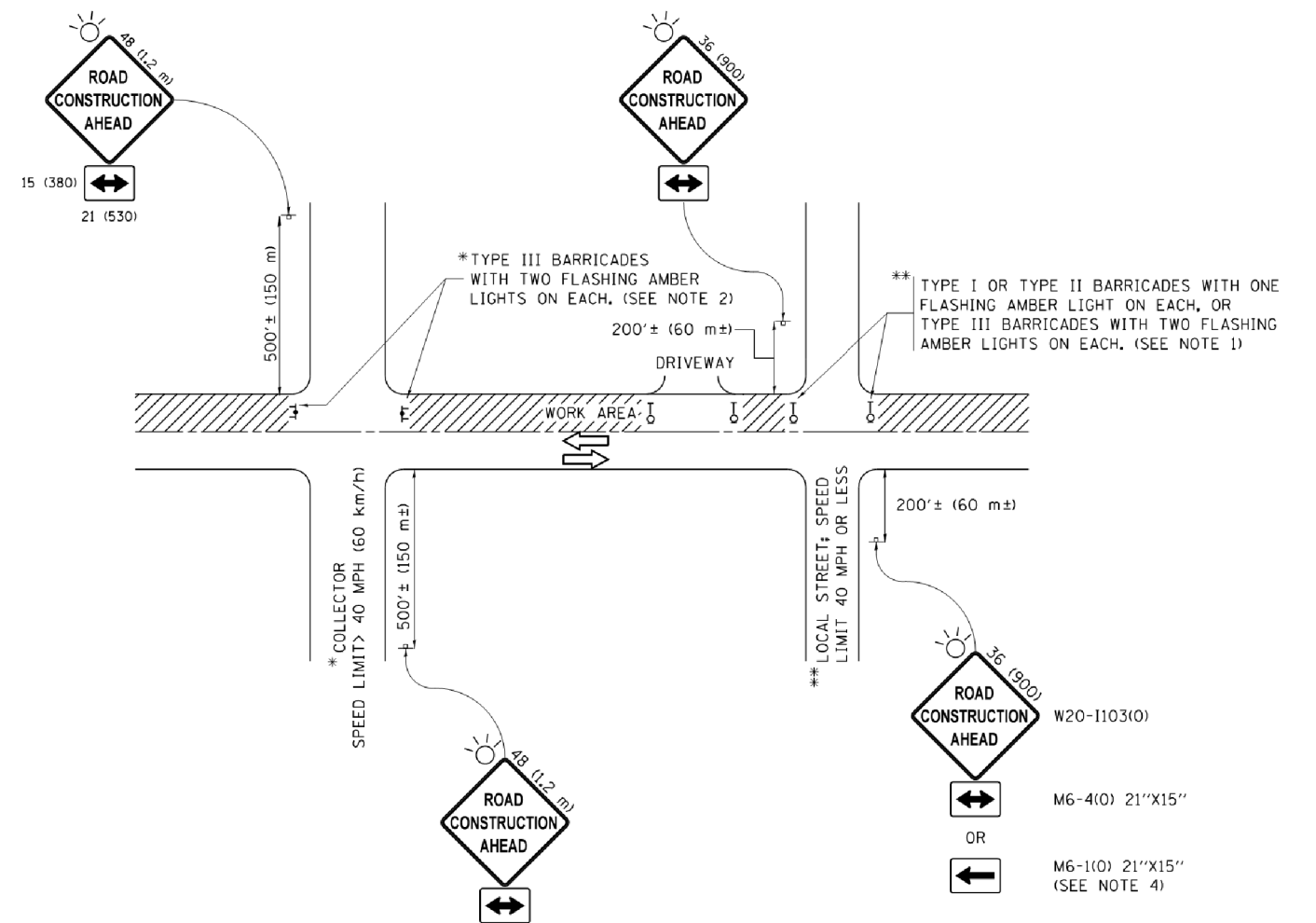
DETAIL OF VARIOUS TYPES OF LANE REDUCTION  
FOR PCC PAVEMENT

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

| F.A.U. RTE.               | SECTION | COUNTY       | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|--------------|--------------|-----------|
| 525                       | 11-N    | MCHENRY      | 135          | 95A       |
| BD53                      |         | CONTRACT NO. | 60701        |           |
| ILLINOIS FED. AID PROJECT |         |              |              |           |



COMPANY NAME: #COMPANY NAME#  
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 DATE PLOTTED: 3/29/2016 9:28:57 AM  
 FILE NAME: 0160701-srt-det-TC10.dgn  
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 PEN TABLE: plotlabel.tbl



**NOTES:**

- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
  - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown.

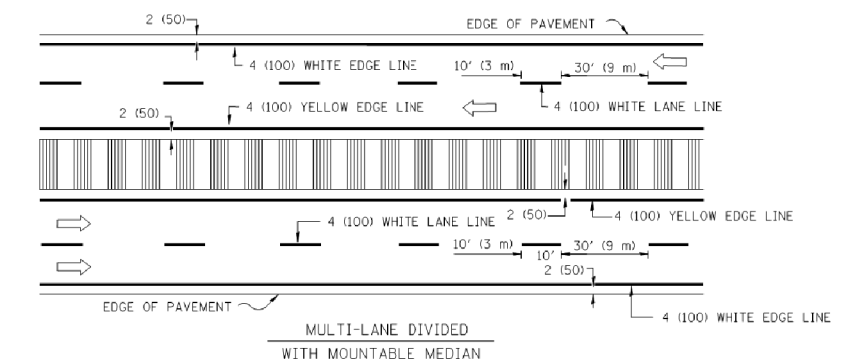
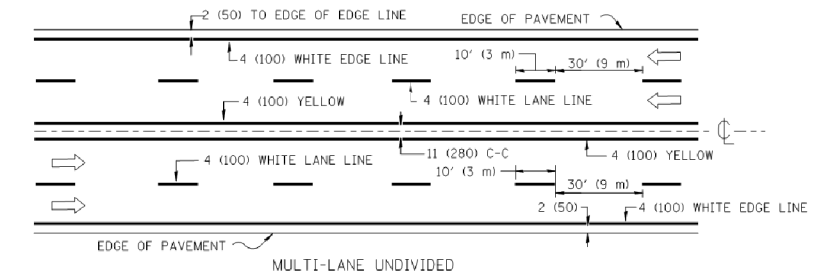
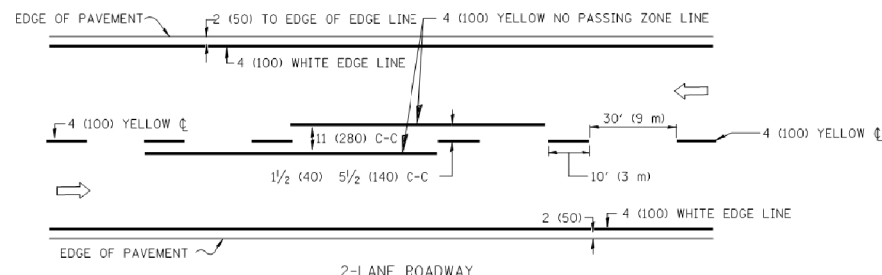
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| Default  | PLOT SCALE = 50.000' / in. | CHECKED -         | REVISED - A. SCHUETZE 07-01-13  |
|  | PLOT DATE = 9/15/2016      | DATE - 06-89      | REVISED - A. SCHUETZE 09-15-16  |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION FOR  
 SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

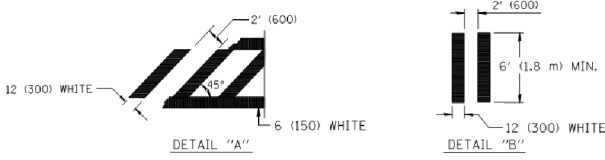
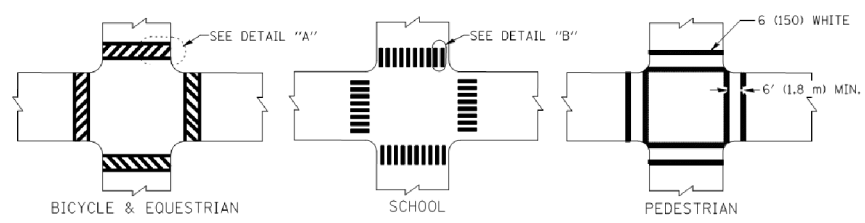
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| F.A.U. RTE.               | SECTION | COUNTY  | TOTAL SHEETS        | SHEET NO.    |
|---------------------------|---------|---------|---------------------|--------------|
| 525                       | 11-N    | MCHENRY | 135                 | 96           |
| <b>TC-10</b>              |         |         | <b>CONTRACT NO.</b> | <b>60701</b> |
| ILLINOIS FED. AID PROJECT |         |         |                     |              |

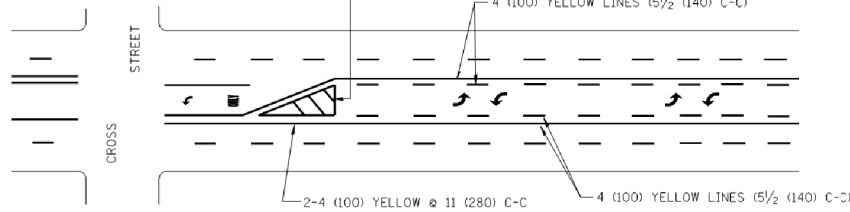
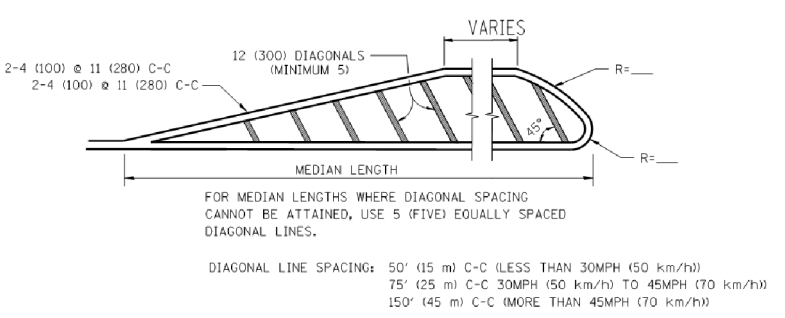
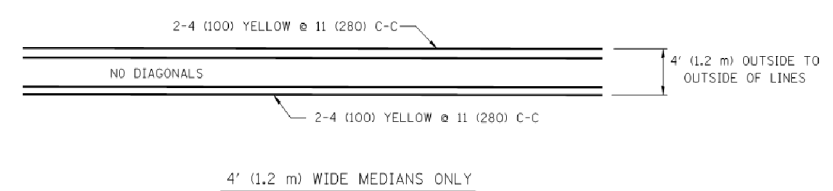


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

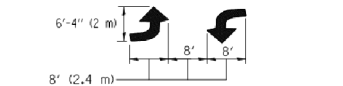
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING

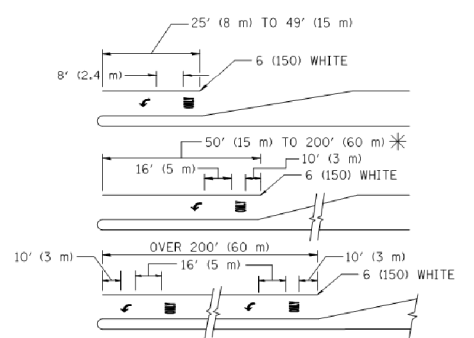


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



TYPICAL PAINTED MEDIAN MARKING

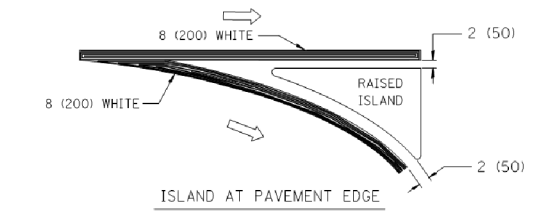
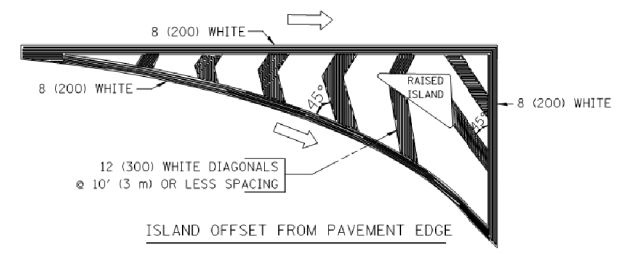
TYPICAL LEFT (OR RIGHT) TURN LANE



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)

\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

| TYPE OF MARKING   | WIDTH OF LINE  | PATTERN                 | COLOR   | SPACING / REMARKS  |
|---|--|-------------------------|---|--|
| CENTERLINE ON 2 LANE PAVEMENT   | 4 (100)  | SKIP-DASH               | YELLOW  | 10' (3 m) LINE WITH 30' (9 m) SPACE  |
| CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT   | 2 @ 4 (100)  | SOLID                   | YELLOW  | 11 (280) C-C   |
| NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS                                      | 4 (100)  | SOLID                   | YELLOW  | 5/2 (140) C-C FROM SKIP-DASH CENTERLINE. OMIT SKIP-DASH CENTERLINE BETWEEN.  |
| LANE LINES  | 4 (100)<br>5 (125) ON FREEWAYS   | SKIP-DASH<br>SKIP-DASH  | WHITE   | 10' (3 m) LINE WITH 30' (9 m) SPACE  |
| DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)                                   | SAME AS LINE BEING EXTENDED  | SKIP-DASH               | SAME AS LINE BEING EXTENDED                       | 2' (600) LINE WITH 6' (1.8 m) SPACE  |
| EDGE LINES  | 4 (100)  | SOLID                   | YELLOW-LEFT<br>WHITE-RIGHT                        | OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB  |
| TURN LANE MARKINGS  | 6 (150) LINE, FULL SIZE LETTERS & SYMBOLS (8' (2.4m))                        | SOLID                   | WHITE   | SEE TYPICAL TURN LANE MARKING DETAIL   |
| TWO WAY LEFT TURN MARKING   | 2 @ 4 (100) EACH DIRECTION   | SKIP-DASH AND SOLID     | YELLOW  | 10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE   |
|   | 8' (2.4m) LEFT ARROW   | IN PAIRS                | WHITE   | SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL   |
| CROSSWALK LINES (PEDESTRIAN)<br>A. DIAGONALS (BIKE & EQUESTRIAN)<br>B. LONGITUDINAL BARS (SCHOOL) | 2 @ 6 (150)<br>12 (300) @ 45°<br>12 (300) @ 90°                              | SOLID<br>SOLID<br>SOLID | WHITE<br>WHITE<br>WHITE                           | NOT LESS THAN 6' (1.8 m) APART<br>2' (600) APART<br>SEE TYPICAL CROSSWALK MARKING DETAILS.   |
| STOP LINES  | 24 (600)   | SOLID                   | WHITE   | PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE |
| PAINTED MEDIANS   | 2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45°                                    | SOLID                   | YELLOW; TWO WAY TRAFFIC<br>WHITE; ONE WAY TRAFFIC | 11 (280) C-C FOR THE DOUBLE LINE<br>SEE TYPICAL PAINTED MEDIAN MARKING.  |
| GORE MARKING AND CHANNELIZING LINES   | 8 (200) WITH 12 (300) DIAGONALS @ 45°  | SOLID                   | WHITE   | DIAGONALS:<br>15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h))<br>20' (6 m) C-C (30MPH (50 km/h) TO 45MPH (70 km/h))<br>30' (9 m) C-C (OVER 45MPH (70 km/h))            |
| RAILROAD CROSSING   | 24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X" | SOLID                   | WHITE   | SEE STATE STANDARD 780001<br>AREA OF:<br>"R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH<br>"X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )                                     |
| SHOULDER DIAGONALS  | 12 (300) @ 45°   | SOLID                   | WHITE - RIGHT<br>YELLOW - LEFT                    | 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))<br>75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h))<br>150' (45 m) C-C (OVER 45MPH (70 km/h))                       |

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

COMPANY NAME: COMPANY NAMES  
PROJECT CONTACT: PROJECT CONTACTS  
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PLOT DRIVER: ILpdf.plt  
PEN TABLE: plotlabel.tbl

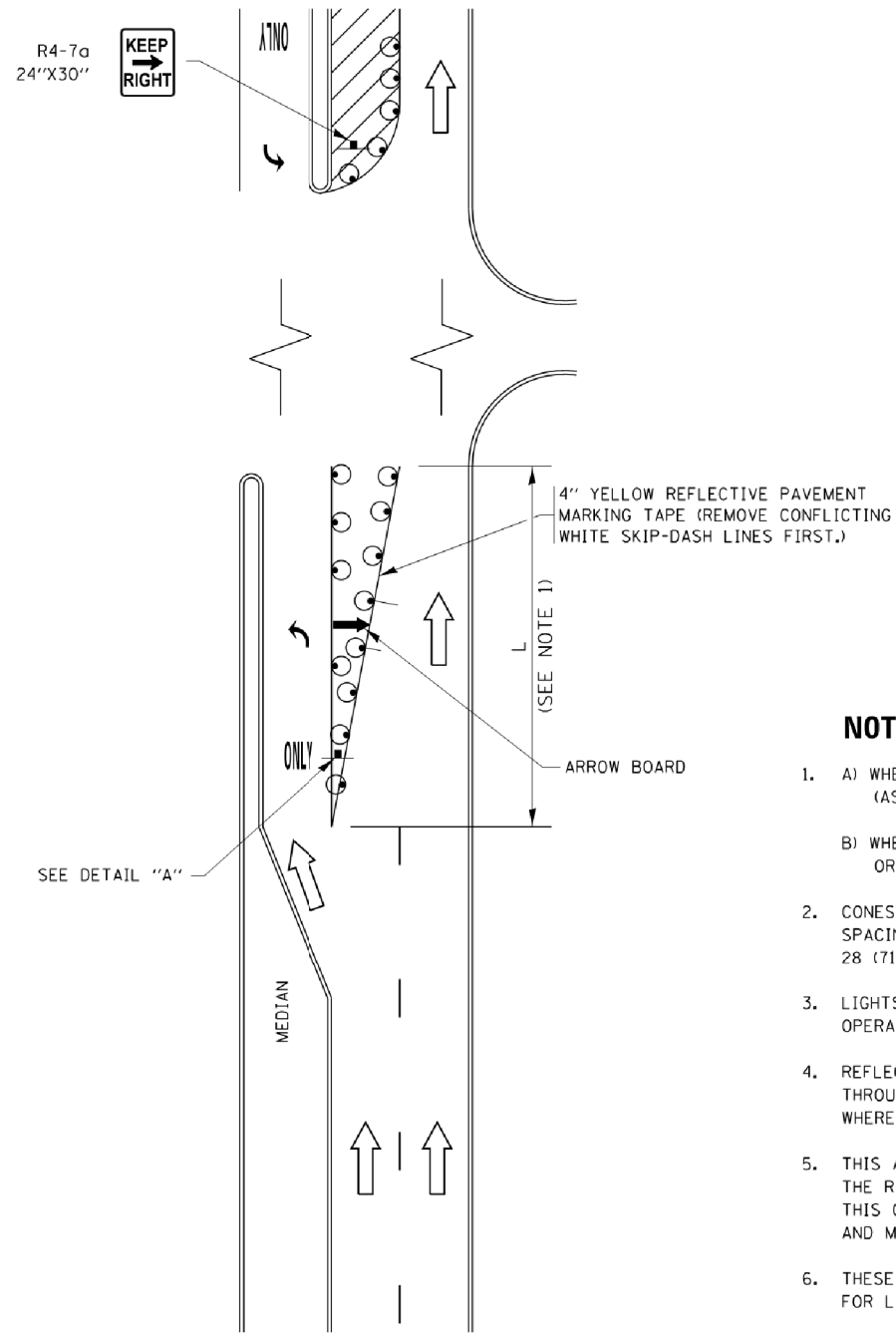
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|   | PLOT SCALE = 50.000' / IN. | CHECKED -        | REVISED -                      |
|   | PLOT DATE = 9/9/2009       | DATE - 03-19-90  | REVISED -                      |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

|                           |                         |      |         |
|---------------------------|-------------------------|------|---------|
| DISTRICT ONE              |                         |      |         |
| TYPICAL PAVEMENT MARKINGS |                         |      |         |
| SCALE: NONE               | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA. |

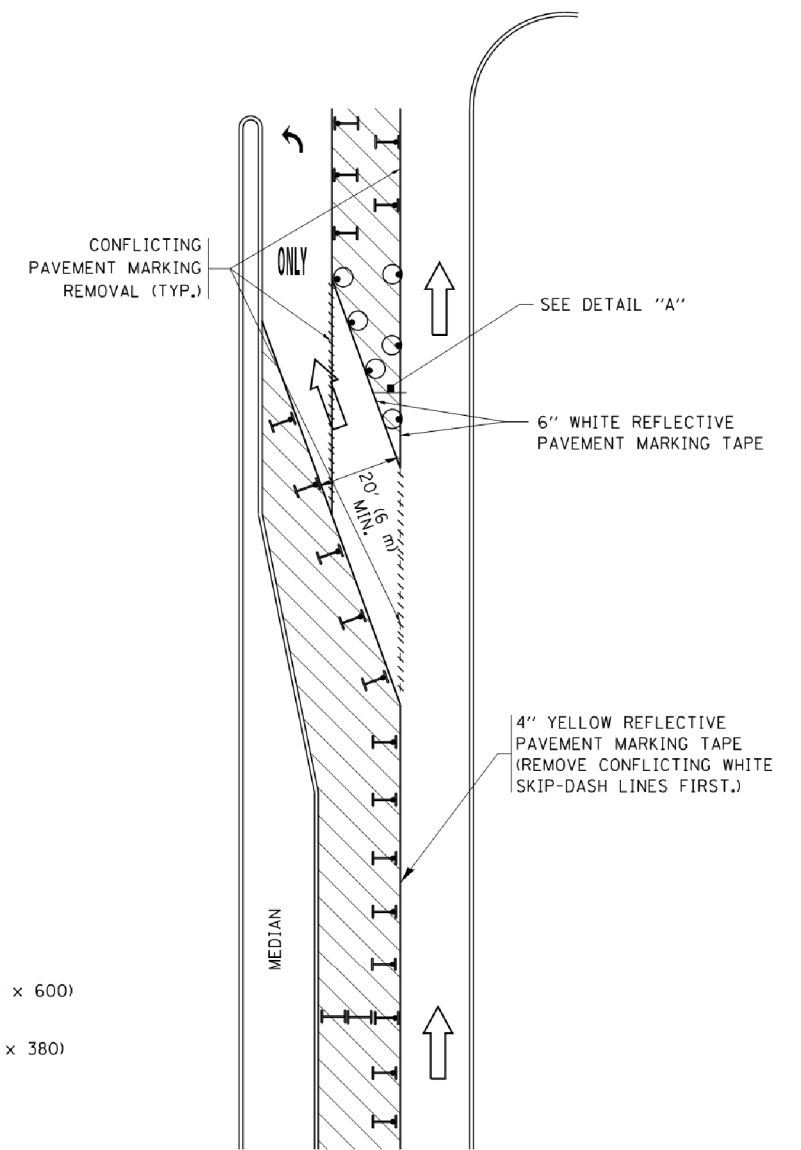
|   |         |              |              |           |
|---|---------|--------------|--------------|-----------|
| F.A.U. RTE.                                     | SECTION | COUNTY       | TOTAL SHEETS | SHEET NO. |
| 525   | 11-N    | MCHENRY      | 135          | 97        |
| TC-13   |         | CONTRACT NO. | 60T01        |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |         |              |              |           |

# TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER



**FIGURE 1**

# TURN BAY ENTRANCE WITHIN A LANE CLOSURE



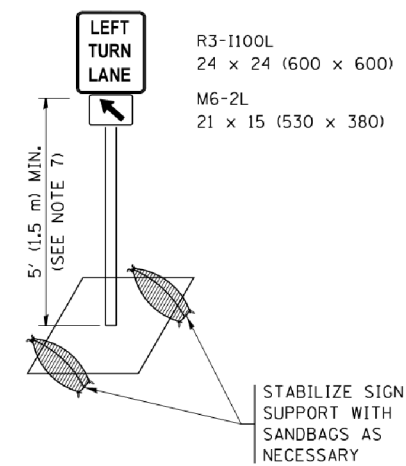
**FIGURE 2**

### LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- ARROW BOARD
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- SIGN ASSEMBLY
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

### NOTES:

1. A) WHEN "L" IS  $\leq$  THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.  
B) WHEN "L" IS  $>$  THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-I100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PRE REQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.



**DETAIL A**

All dimensions are in inches (millimeters) unless otherwise shown.

COMPANY NAME: PROJECT CONTACTS  
 PROJECT CONTACT: PROJECT CONTACTS  
 DATE PLOTTED: 3/29/2016 9:29:48 AM  
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 PLOT DRIVER: IL\_Pdf\_Plotter.fq  
 PEN TABLE: plot.tbl

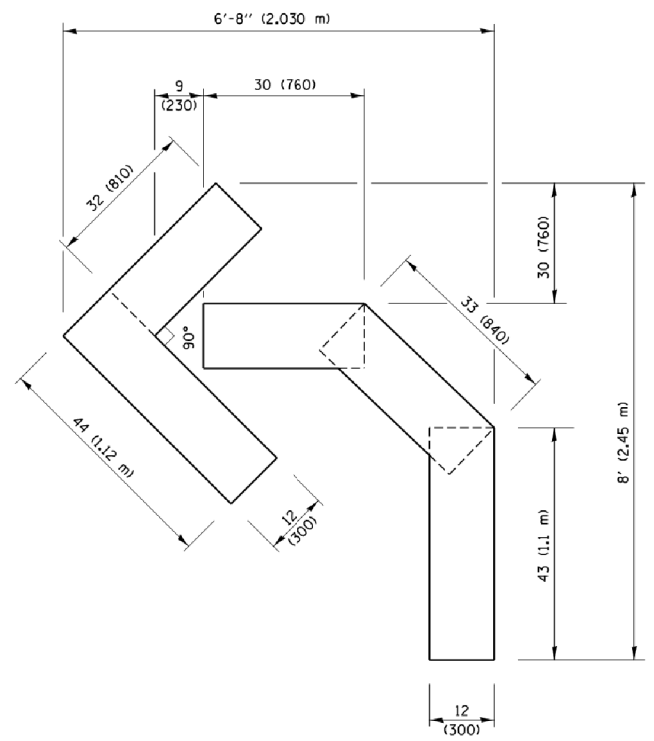
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|  | PLOT DATE = 9/15/2016       | REVISED - T. RAMMACHER 01-06-00 | REVISED -                      |

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

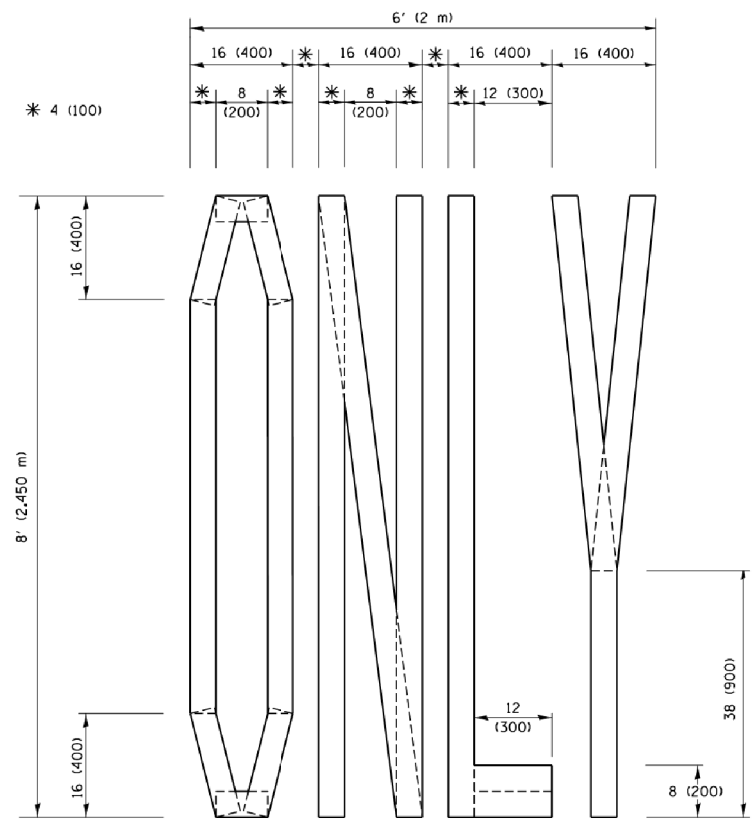
TRAFFIC CONTROL AND PROTECTION AT TURN BAYS  
 (TO REMAIN OPEN TO TRAFFIC)

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

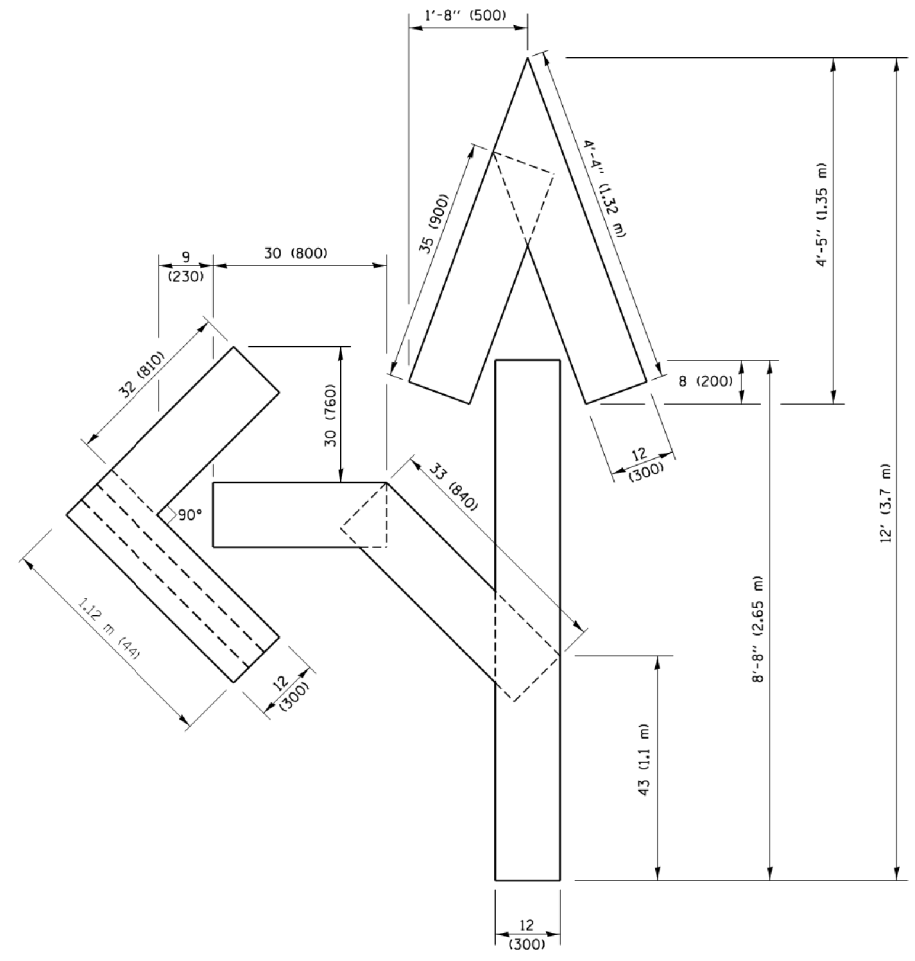
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| F.A.U. RTE.               | SECTION | COUNTY       | TOTAL SHEETS | SHEET NO. |
| 525                       | 11-N    | MCHENRY      | 135          | 98        |
| TC-14                     |         | CONTRACT NO. | 60701        |           |
| ILLINOIS FED. AID PROJECT |         |              |              |           |



**QUANTITY**  
 4 (100) LINE = 45.5 ft. (13.9 m)  
 15.2 sq. ft. (1.41 sq. m)

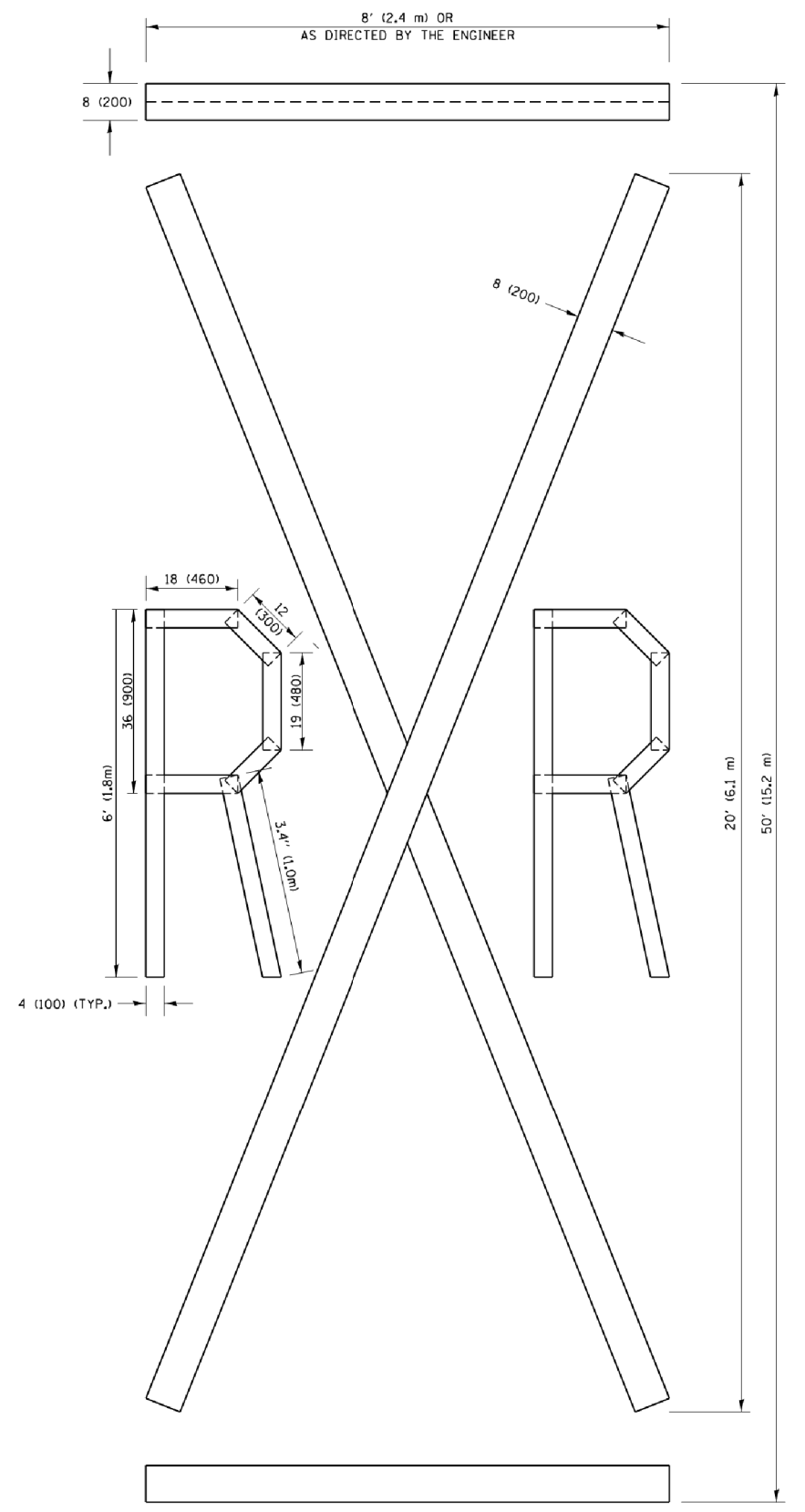


**QUANTITY**  
 4 (100) LINE = 64.1 ft. (19.5 m)  
 21.4 sq. ft. (1.99 sq. m)



**QUANTITY**  
 4 (100) LINE = 82.5 ft. (25.1 m)  
 27.5 sq. ft. (2.53 sq. m)

**NOTE:**  
 ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



**QUANTITY**  
 4 (100) LINE = 225.9 ft. (68.9 m)  
 75.3 sq. ft. (6.99 sq. m)

All dimensions are in inches (millimeters) unless otherwise shown.

COMPANY NAME: \*COMPANY NAME\*  
 PROJECT CONTACT: \*PROJECT CONTACT\*  
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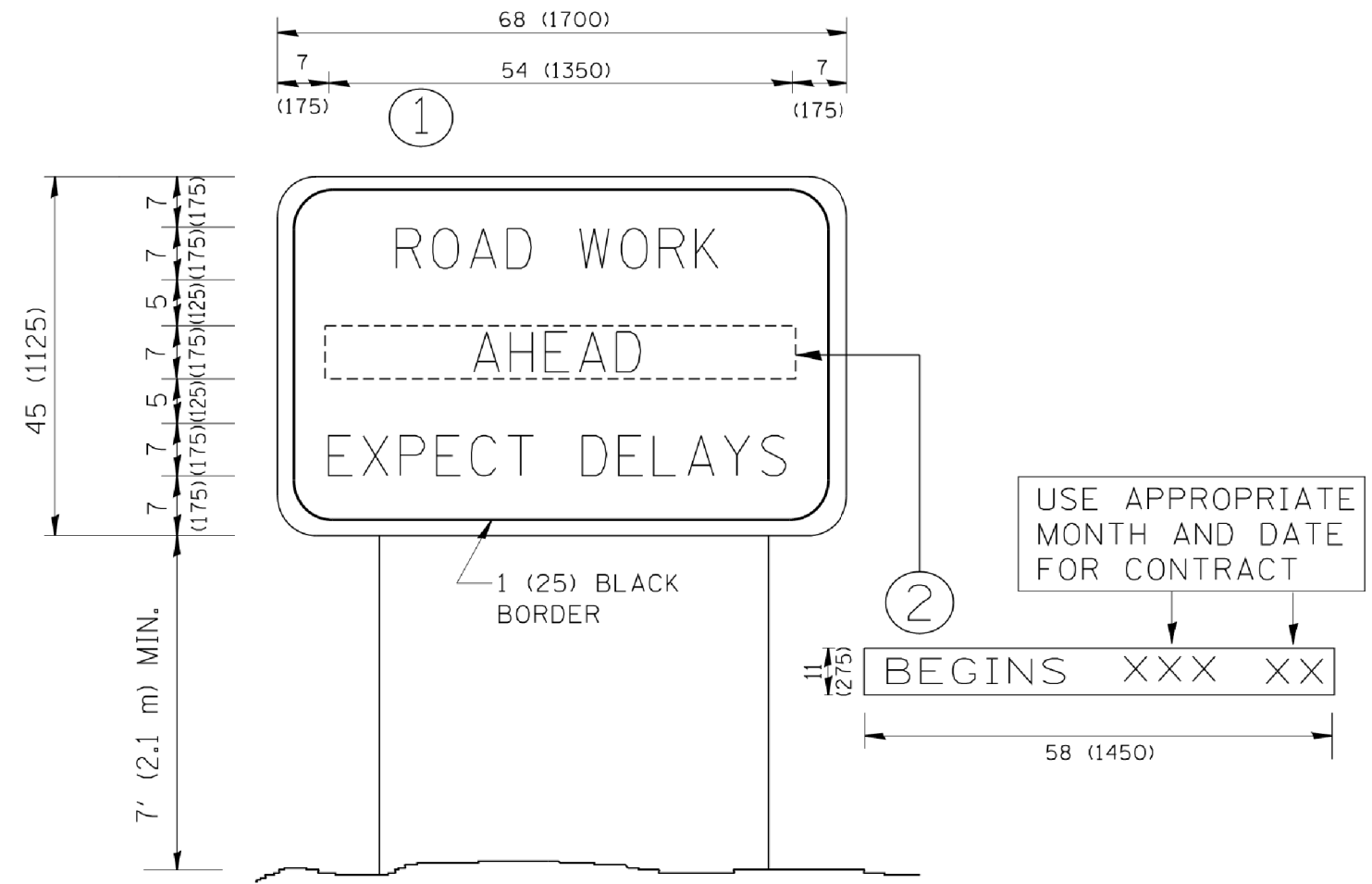
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|  |                     | CHECKED -       | REVISED -E. GOMEZ 08-28-00     |
| PLOT SCALE = 50.0000' / in.  |                     | DATE - 09-18-94 | REVISED -A. SCHUETZE 09-15-16  |

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

|  |                         |      |         |
|--|-------------------------|------|---------|
| <b>SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS</b> |                         |      |         |
| SCALE: NONE  | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA. |

|   |         |         |                     |              |
|---|---------|---------|---------------------|--------------|
| F.A.U. RTE.                                     | SECTION | COUNTY  | TOTAL SHEETS        | SHEET NO.    |
| 525   | 11-N    | MCHENRY | 135                 | 99           |
| <b>TC-16</b>                                    |         |         | <b>CONTRACT NO.</b> | <b>60701</b> |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |         |         |                     |              |

COMPANY NAME: \*COMPANY NAME\*  
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 PLOT DRIVER: IL\_Pdf.plt  
 PEN TABLE: plotlabel.tbl



**NOTES:**

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

|                           |                             |            |                                 |
|---------------------------|-----------------------------|------------|---------------------------------|
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
 INFORMATION SIGN**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

| F.A.U. RTE.                                     | SECTION | COUNTY  | TOTAL SHEETS        | SHEET NO.    |
|---|---------|---------|---------------------|--------------|
| 525   | 11-N    | MCHENRY | 135                 | 100          |
| <b>TC-22</b>                                    |         |         | <b>CONTRACT NO.</b> | <b>60701</b> |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |         |         |                     |              |







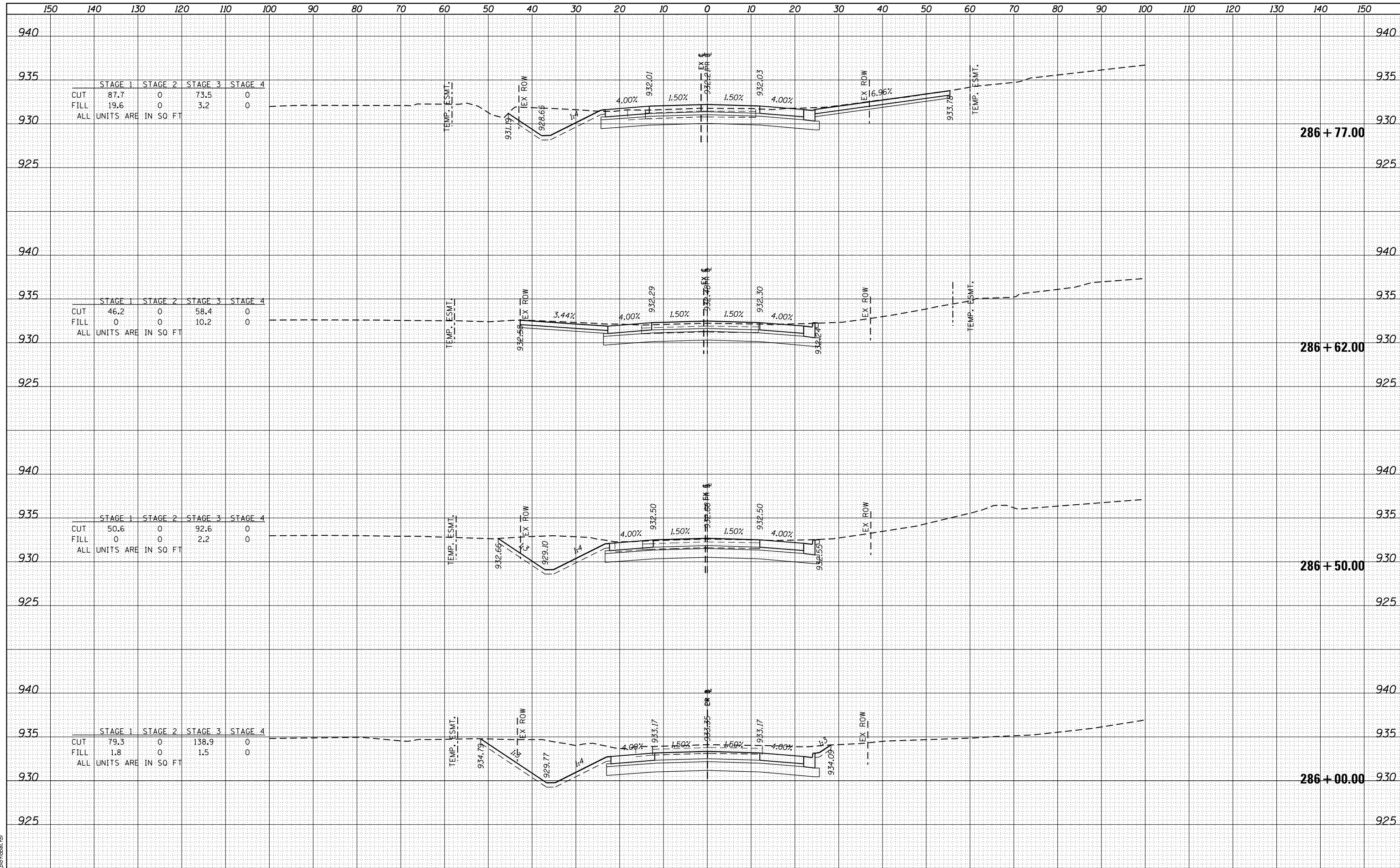




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| FINL | SURVEYED | DATE |
| NO.  | PLOTTED  | BY   |
|      | TEMPLATE |      |
|      | AREAS    |      |
|      | CHECKED  |      |

|          |          |      |
|----------|----------|------|
| ORIGINAL | SURVEYED | DATE |
| NO.      | PLOTTED  | BY   |
|          | TEMPLATE |      |
|          | AREAS    |      |
|          | CHECKED  |      |

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 PROJECT CONTACT: #PROJECT CONTACTS  
 CLIENT: #CLIENTS  
 DATE PLOTTED: 3/29/2018 9:34:29 AM  
 PLOT DRIVER: I:\proj\mch20\11-N\11-N.dwg  
 PEN TABLE: plottbl.tbl



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| PLOTTED  |  |
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| CHECKED  |  |
| NO.      |  |

|          |  |
|----------|--|
| DATE     |  |
| BY       |  |
| SURVEYED |  |
| PLOTTED  |  |
| TEMPLATE |  |
| AREAS    |  |
| CHECKED  |  |
| NO.      |  |

|                 |                                       |
|-----------------|---------------------------------------|
| COMPANY NAME    | HRGreen.com                           |
| PROJECT CONTACT | Illinois Professional Design Firm     |
| CLIENT          | Illinois Department of Transportation |
| DATE PLOTTED    | 3/29/2018                             |
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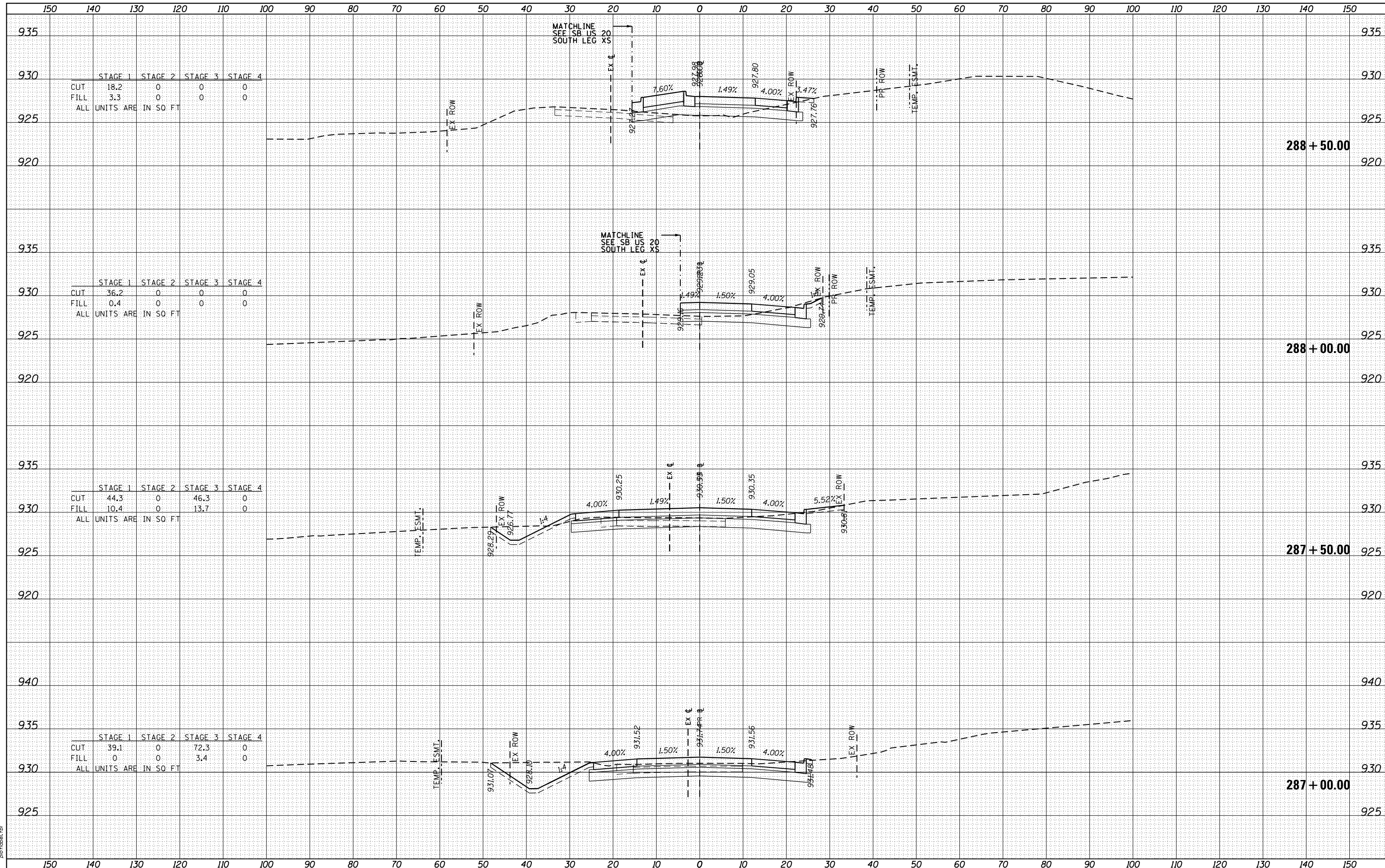
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| DRAWN     | -       |
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| CHECKED   | -       |
| REVIS     | -       |
| DATE      | -       |
| REVIS     | -       |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20 AT HARMONY ROAD  
NORTHBOUND US ROUTE 20 SOUTH LEG CROSS SECTIONS**

SCALE: 10H:10V SHEET 6 OF 35 SHEETS STA. 287+00.00 TO STA. 288+50.00

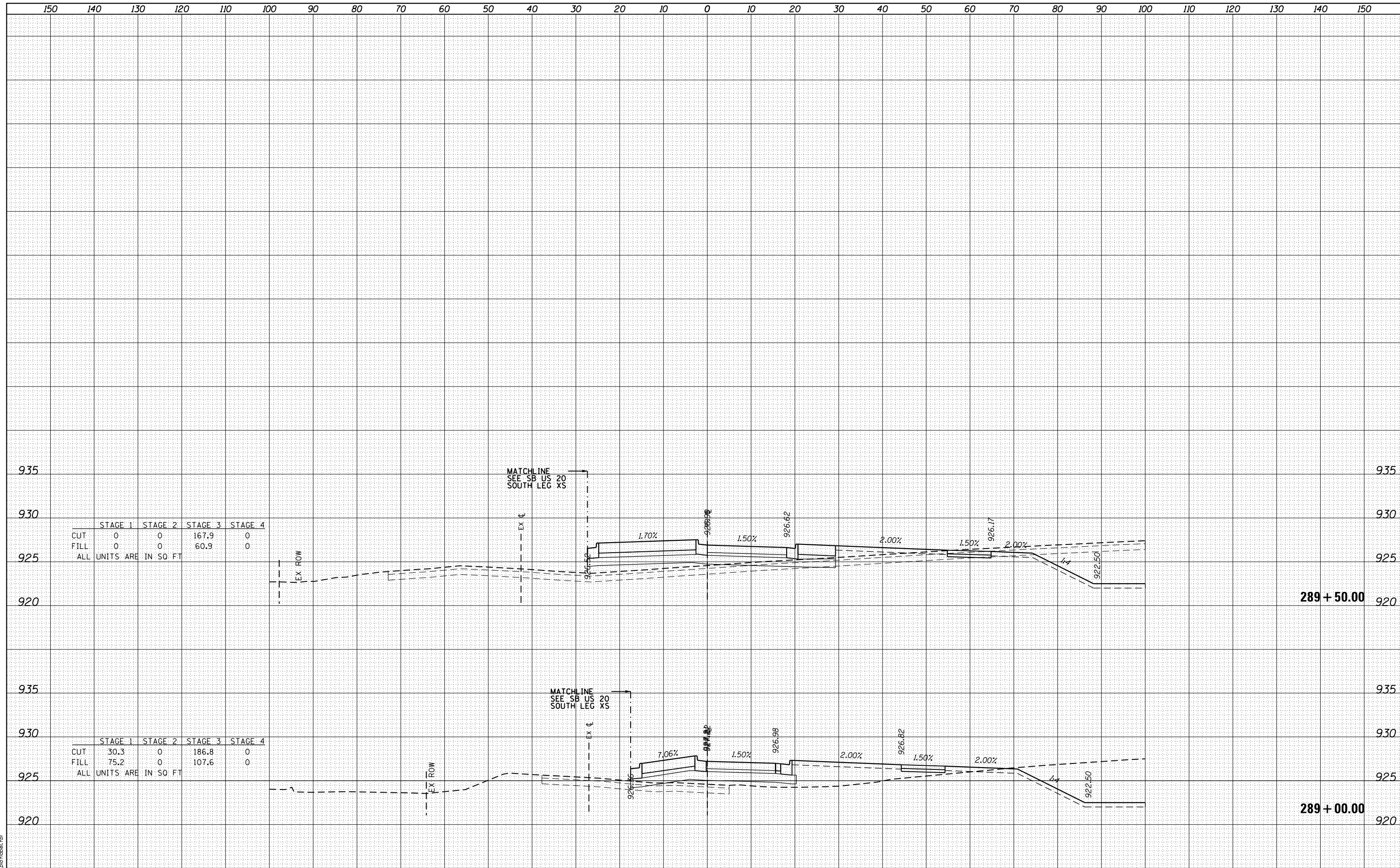
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| F.A.U. RTE.               | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
| 525                       | 11-N    | MCHENRY | 135          | 106       |
| CONTRACT NO.              |         |         | 60T01        |           |
| ILLINOIS FED. AID PROJECT |         |         |              |           |



|          |  |
|----------|--|
| DATE     |  |
| BY       |  |
| SURVEYED |  |
| PLOTTED  |  |
| TEMPLATE |  |
| AREAS    |  |
| CHECKED  |  |
| NO.      |  |

|          |  |
|----------|--|
| DATE     |  |
| BY       |  |
| SURVEYED |  |
| PLOTTED  |  |
| TEMPLATE |  |
| AREAS    |  |
| CHECKED  |  |
| NO.      |  |

|                 |                                   |
|-----------------|-----------------------------------|
| COMPANY NAME    | HRGreen.com                       |
| PROJECT CONTACT | Illinois Professional Design Firm |
| CLIENT          | #184-001322                       |
| DATE PLOTTED    |                                   |
| PLOT DRIVER     |                                   |
| PEN TABLE       |                                   |



|                          | STAGE 1 | STAGE 2 | STAGE 3 | STAGE 4 |
|--------------------------|---------|---------|---------|---------|
| CUT                      | 0       | 0       | 167.9   | 0       |
| FILL                     | 0       | 0       | 60.9    | 0       |
| ALL UNITS ARE IN SQ. FT. |         |         |         |         |

|                          | STAGE 1 | STAGE 2 | STAGE 3 | STAGE 4 |
|--------------------------|---------|---------|---------|---------|
| CUT                      | 30.3    | 0       | 186.8   | 0       |
| FILL                     | 75.2    | 0       | 107.6   | 0       |
| ALL UNITS ARE IN SQ. FT. |         |         |         |         |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US ROUTE 20 AT HARMONY ROAD  
NORTHBOUND US ROUTE 20 SOUTH LEG CROSS SECTIONS

|            |              |          |   |         |   |
|------------|--------------|----------|---|---------|---|
| USER NAME  | := bhar-tmo  | DESIGNED | - | REVISED | - |
|            |              | DRAWN    | - | REVISED | - |
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| PLOT DATE  | := 3/29/2018 | DATE     | - | REVISED | - |

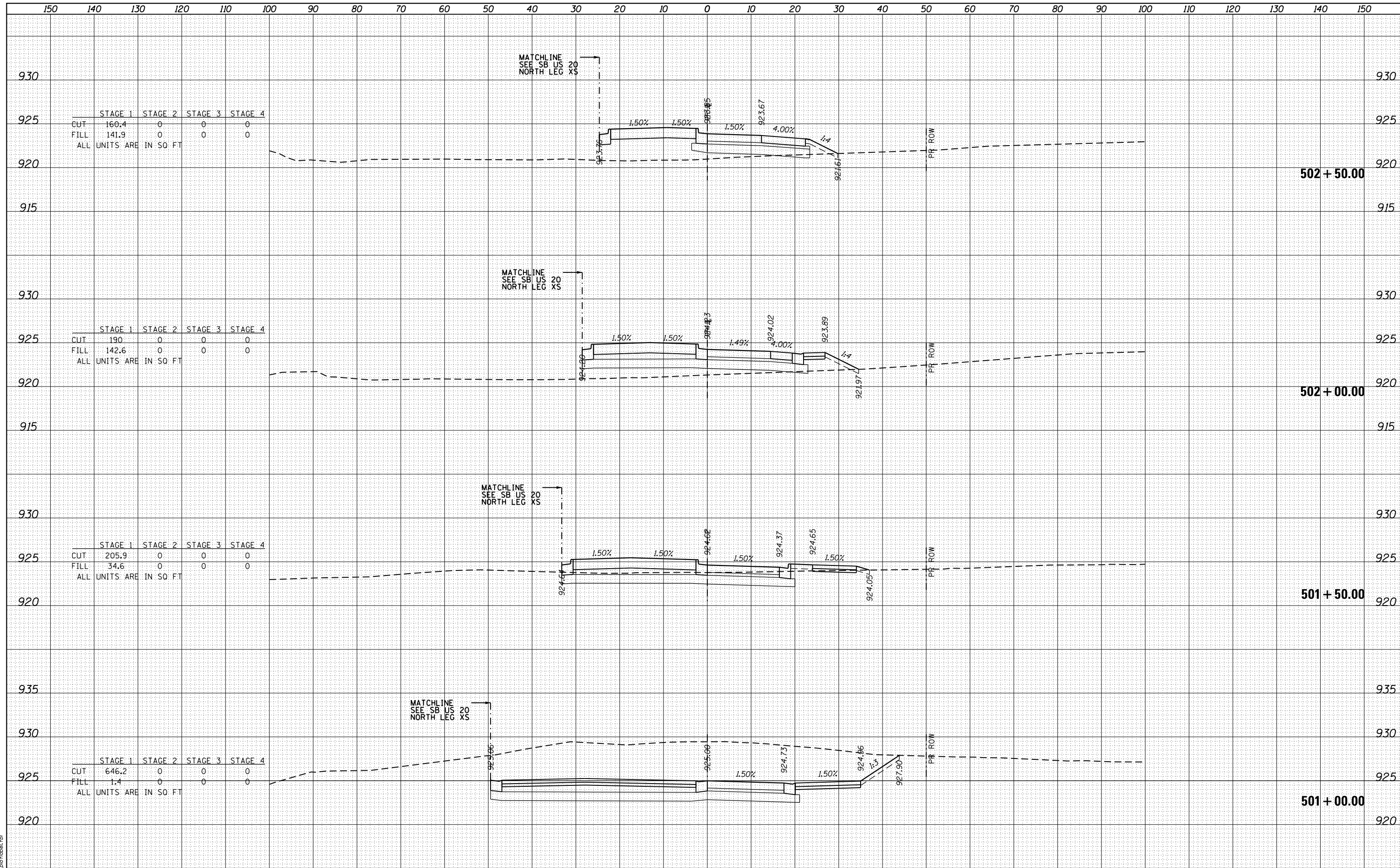
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|--------|---------|-------|----------------|------|-----------------------------|
| SCALE: | 10H:10V | SHEET | 7 OF 35 SHEETS | STA. | 289+00.00 TO STA. 289+50.00 |
|--------|---------|-------|----------------|------|-----------------------------|

|                           |         |         |              |           |
|---------------------------|---------|---------|--------------|-----------|
| F.A.U. RTE.               | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
| 525                       | 11-N    | MCHENRY | 135          | 107       |
| CONTRACT NO.              |         |         | 60T01        |           |
| ILLINOIS FED. AID PROJECT |         |         |              |           |

|             |  |
|-------------|--|
| DATE        |  |
| BY          |  |
| SURVEYED    |  |
| PLOTTED     |  |
| TEMPLATE    |  |
| AREAS       |  |
| CHECKED     |  |
| FINL SURVEY |  |
| NOTE BOOK   |  |
| NO.         |  |

|                 |  |
|-----------------|--|
| DATE            |  |
| BY              |  |
| SURVEYED        |  |
| PLOTTED         |  |
| TEMPLATE        |  |
| AREAS           |  |
| CHECKED         |  |
| ORIGINAL SURVEY |  |
| NOTE BOOK       |  |
| NO.             |  |

|              |                   |
|--------------|-------------------|
| COMPANY NAME | #PROJECT CONTACTS |
| CLIENTS      | DATE PLOTTED      |
| PROJECT      | DATE PLOTTED      |
| PLANNING     | DATE PLOTTED      |
| DESIGN       | DATE PLOTTED      |
| CONSTRUCTION | DATE PLOTTED      |
| OPERATION    | DATE PLOTTED      |
| MAINTENANCE  | DATE PLOTTED      |



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| DATE          |  |
| BY            |  |
| SURVEYED      |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| NOTE BOOK     |  |
| AREAS CHECKED |  |
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| DATE          |  |
| BY            |  |
| SURVEYED      |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| NOTE BOOK     |  |
| AREAS CHECKED |  |
| NO.           |  |

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|-----------------|----------------------|
| COMPANY NAME    | HRGreen.com          |
| PROJECT CONTACT |                      |
| CLIENT          |                      |
| DATE PLOTTED    | 3/29/2018 9:35:51 AM |
| PLOT DRIVER     | ilplotter.plt        |
| PEN TABLE       | pen.tbl              |

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|-----------|-----------|
| USER NAME | bhar-ta   |
| DESIGNED  | -         |
| DRAWN     | -         |
| CHECKED   | -         |
| DATE      | 3/29/2018 |

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| REVISED | - |
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| REVISED | - |

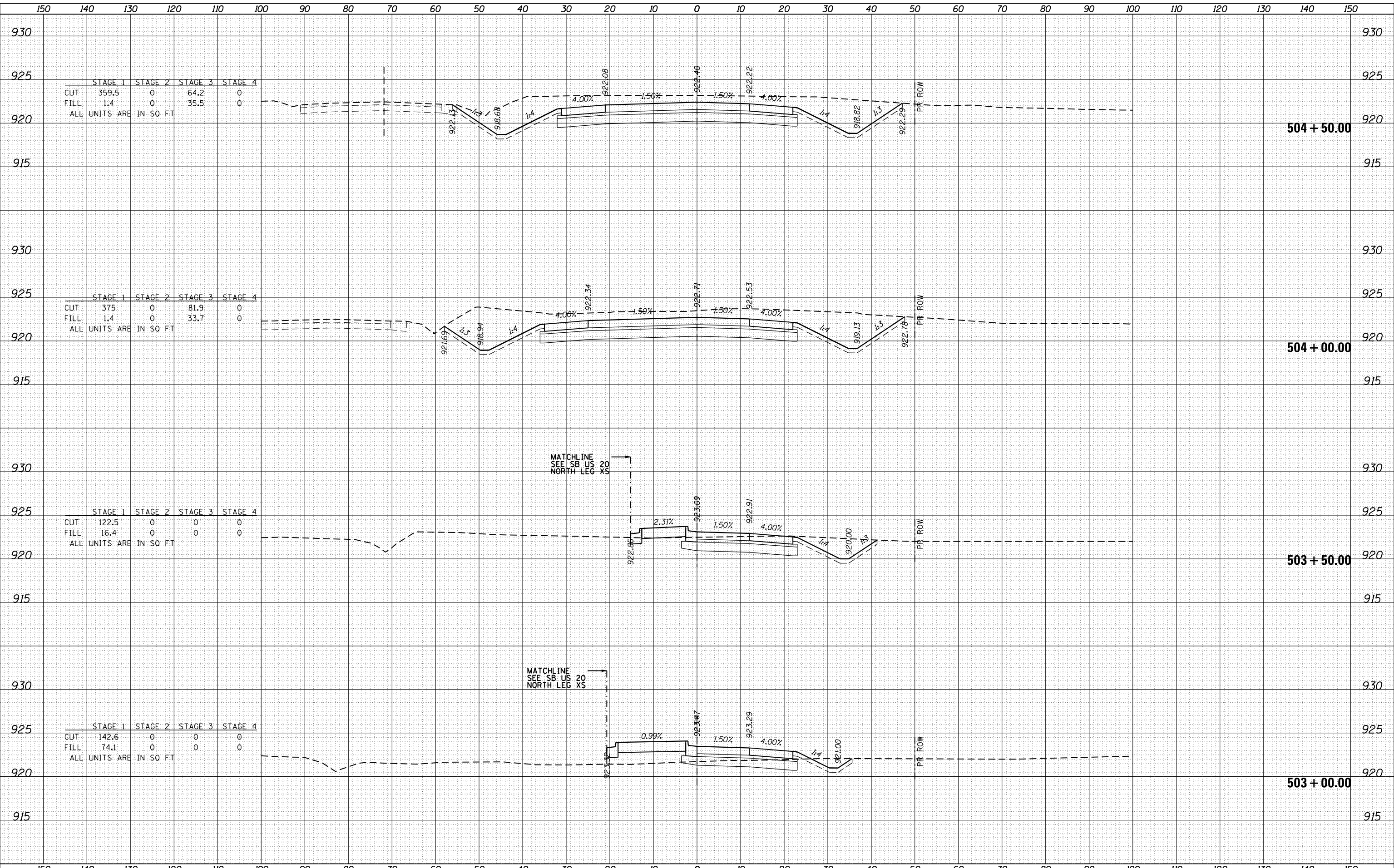
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20 AT HARMONY ROAD  
NORTHBOUND US ROUTE 20 NORTH LEG CROSS SECTIONS**

|              |         |         |              |           |
|--------------|---------|---------|--------------|-----------|
| F.A.U. RTE.  | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
| 525          | 11-N    | MCHENRY | 135          | 109       |
| CONTRACT NO. |         |         | 60T01        |           |

SCALE: 10H:10V SHEET 9 OF 35 SHEETS STA. 503+00.00 TO STA. 504+50.00

ILLINOIS FED. AID PROJECT



| STAGE 1 | STAGE 2   | STAGE 3  | STAGE 4 |   |
|---------|-----------|----------|---------|---|
| CUT     | 359.5     | 0        | 64.2    | 0 |
| FILL    | 1.4       | 0        | 35.5    | 0 |
| ALL     | UNITS ARE | IN SO FT |         |   |

| STAGE 1 | STAGE 2   | STAGE 3  | STAGE 4 |   |
|---------|-----------|----------|---------|---|
| CUT     | 375       | 0        | 81.9    | 0 |
| FILL    | 1.4       | 0        | 33.7    | 0 |
| ALL     | UNITS ARE | IN SO FT |         |   |

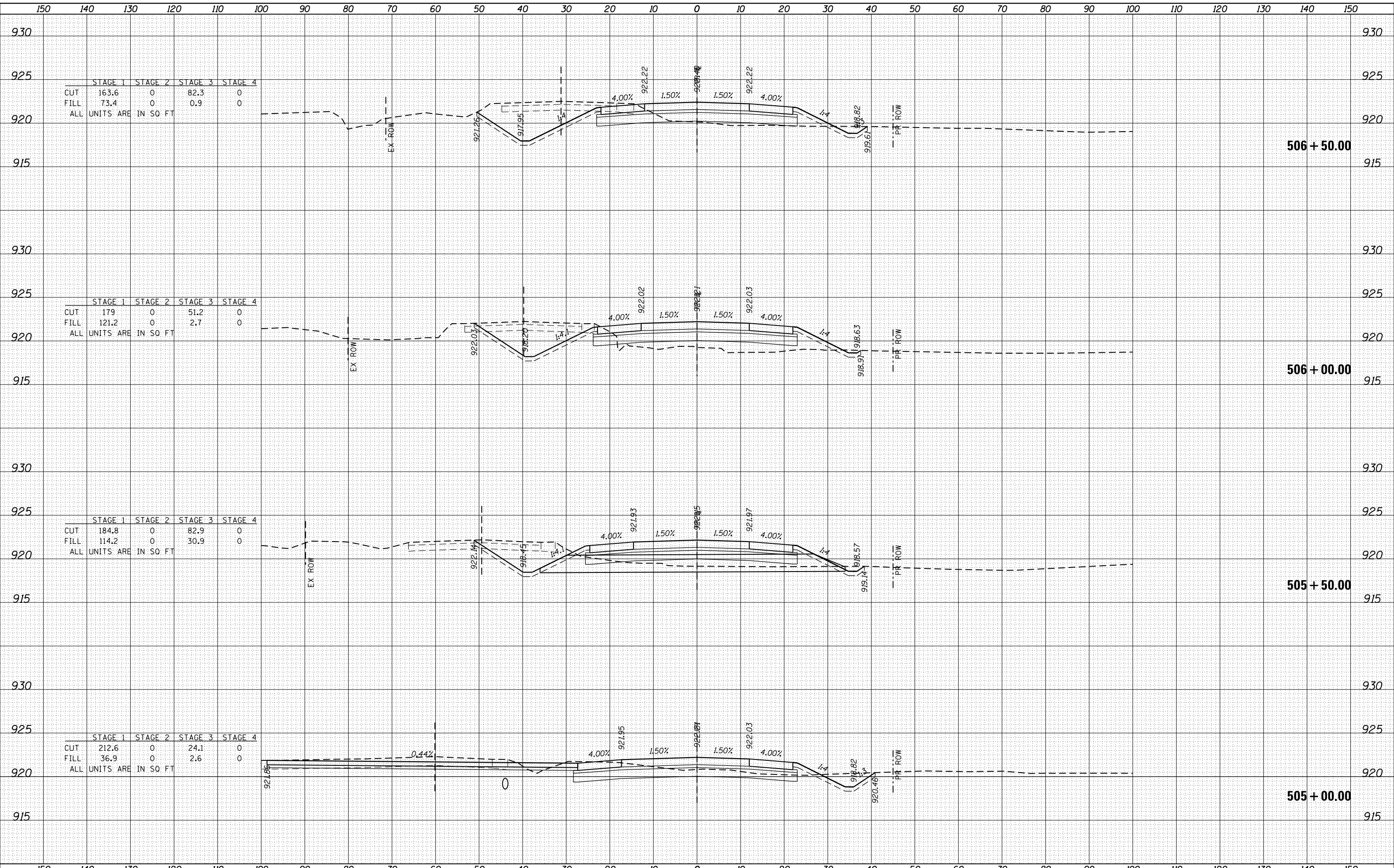
| STAGE 1 | STAGE 2   | STAGE 3  | STAGE 4 |   |
|---------|-----------|----------|---------|---|
| CUT     | 122.5     | 0        | 0       | 0 |
| FILL    | 16.4      | 0        | 0       | 0 |
| ALL     | UNITS ARE | IN SO FT |         |   |

| STAGE 1 | STAGE 2   | STAGE 3  | STAGE 4 |   |
|---------|-----------|----------|---------|---|
| CUT     | 142.6     | 0        | 0       | 0 |
| FILL    | 74.1      | 0        | 0       | 0 |
| ALL     | UNITS ARE | IN SO FT |         |   |

|          |      |
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| BY       | DATE |
| SURVEYED |      |
| PLOTTED  |      |
| TEMPLATE |      |
| AREAS    |      |
| CHECKED  |      |
| NO.      |      |

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| BY       | DATE |
| SURVEYED |      |
| PLOTTED  |      |
| TEMPLATE |      |
| AREAS    |      |
| CHECKED  |      |
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| BY       | DATE |
| SURVEYED |      |
| PLOTTED  |      |
| TEMPLATE |      |
| AREAS    |      |
| CHECKED  |      |
| NO.      |      |

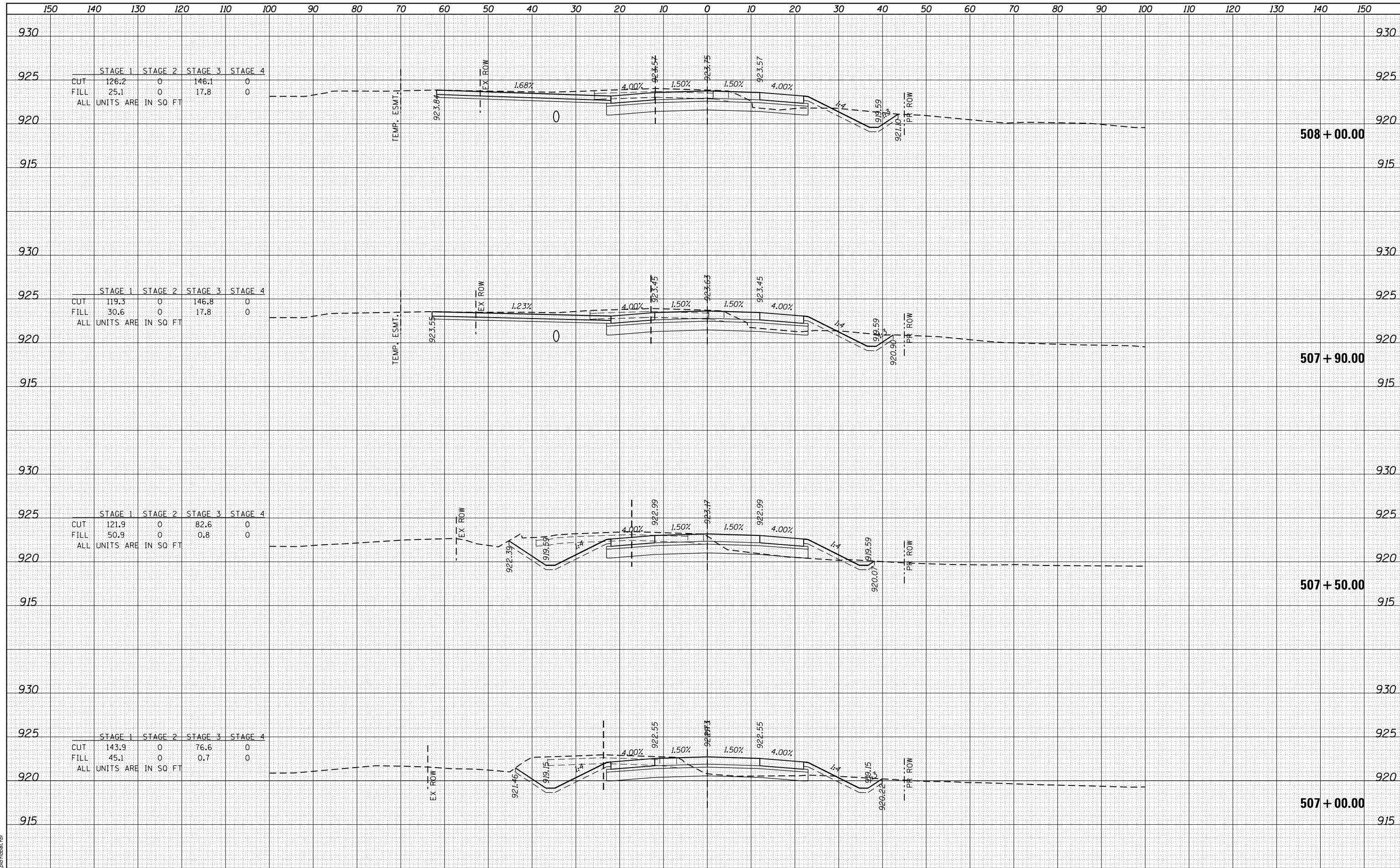


COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: #PROJECT CONTACTS  
 CLIENT: 3/29/2018 9:34:55 AM  
 DATE PLOTTED: 3/29/2018 9:34:55 AM  
 PLOT DRIVER: I:\proj\2018\2018-02-18\20-ML-1101-1101.dwg  
 PEN TABLE: plottbl.tbl

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| DATE            |  |
| BY              |  |
| FINISHED SURVEY |  |
| PLOTTED         |  |
| NOTE BOOK       |  |
| AREAS CHECKED   |  |
| NO.             |  |

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| DATE            |  |
| BY              |  |
| ORIGINAL SURVEY |  |
| PLOTTED         |  |
| NOTE BOOK       |  |
| AREAS CHECKED   |  |
| NO.             |  |

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: #PROJECT CONTACTS  
 CLIENTS: #CLIENTS  
 DATE PLOTTED: 3/29/2018 9:59:00 AM  
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 PEN TABLE: p102tbl.tbl

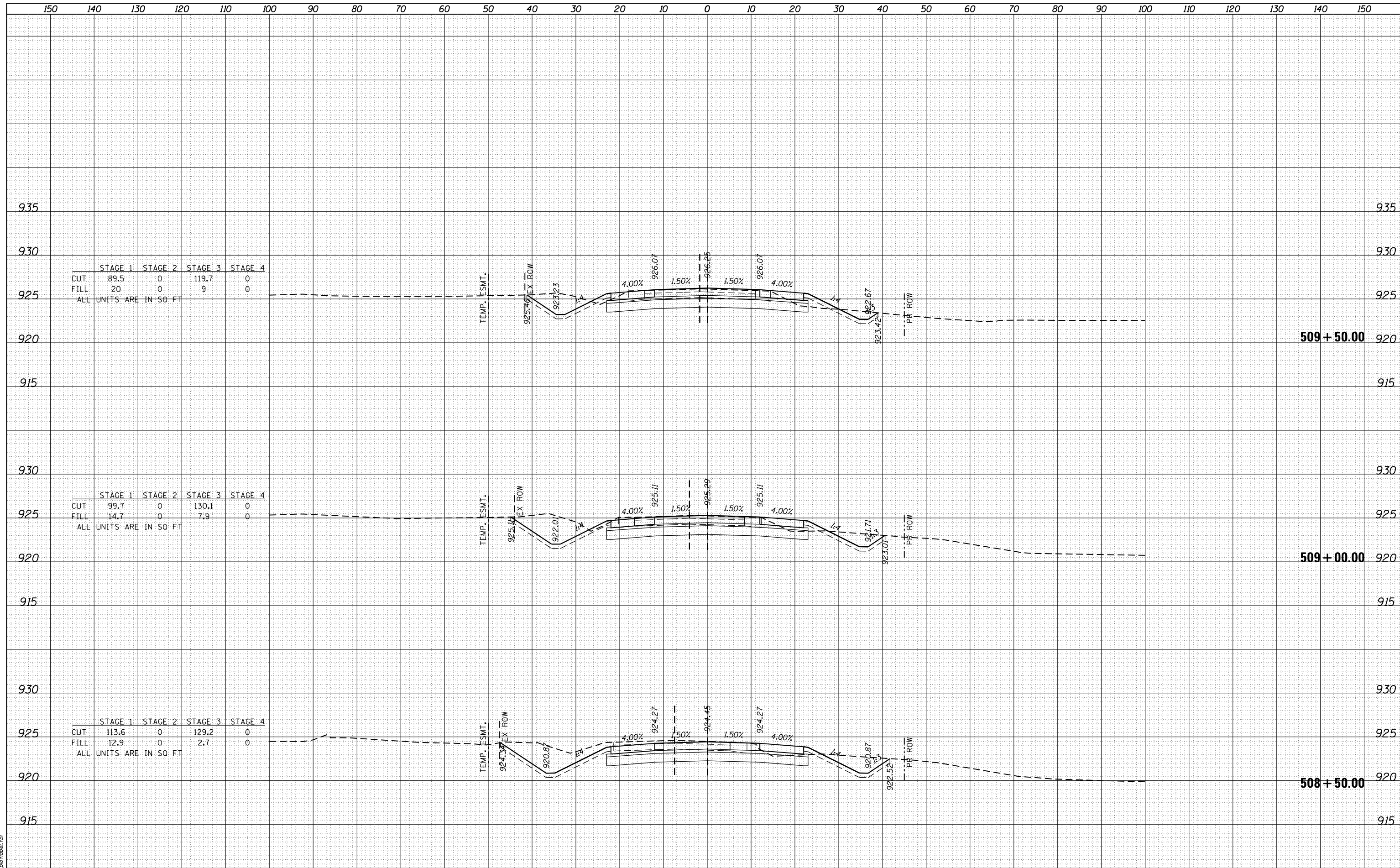




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| DATE     |  |
| BY       |  |
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| PLOTTED  |  |
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| DATE     |  |
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| PLOTTED  |  |
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| CHECKED  |  |
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|                 |             |
|-----------------|-------------|
| COMPANY NAME    | HRGreen.com |
| PROJECT CONTACT |             |
| CLIENT          |             |
| DATE PLOTTED    | 5/7/2018    |
| PLOT DRIVER     |             |
| PEN TABLE       |             |









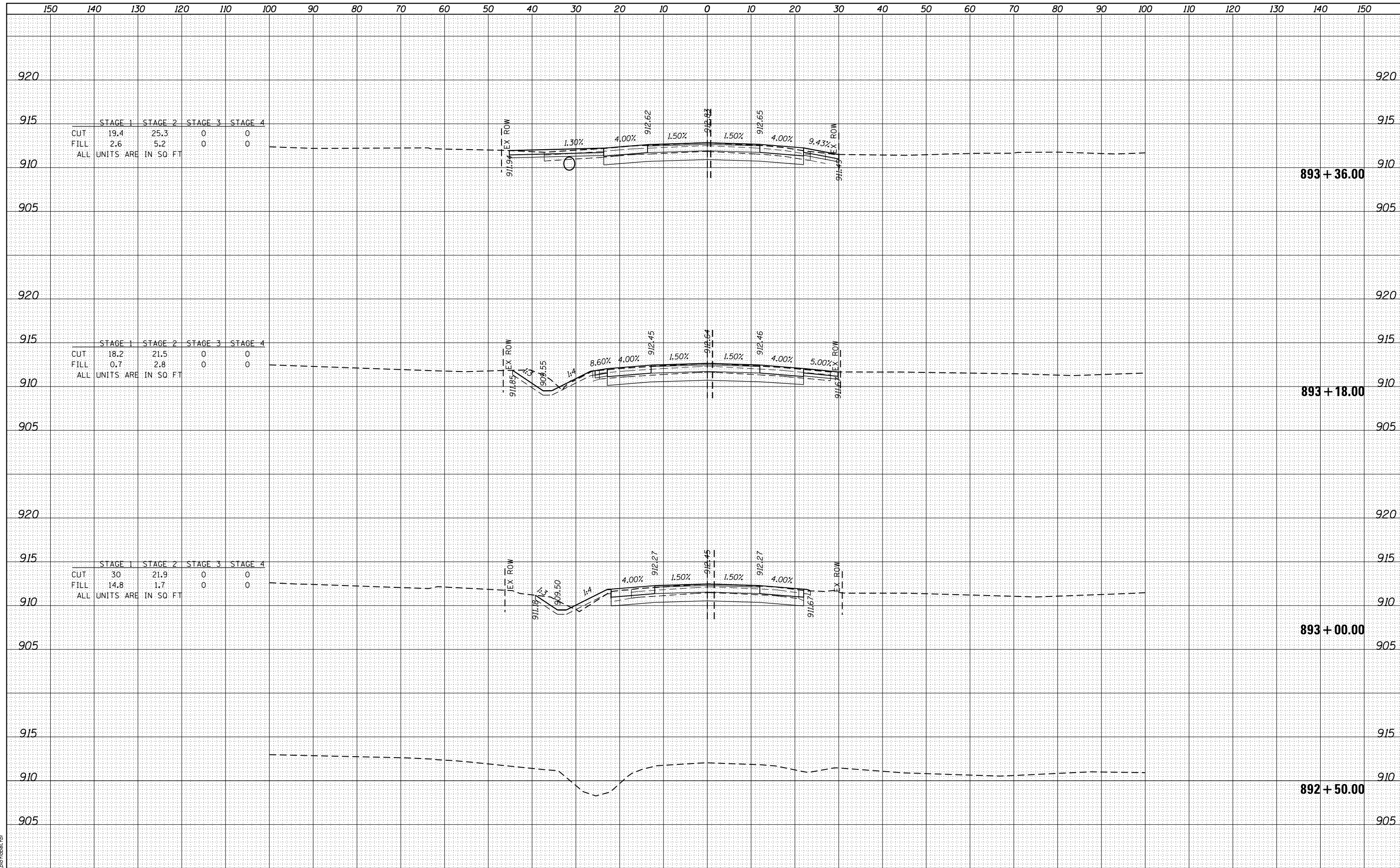




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| DATE     |  |
| BY       |  |
| SURVEYED |  |
| PLOTTED  |  |
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| DATE     |  |
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| TEMPLATE |  |
| AREAS    |  |
| CHECKED  |  |
| FINISH   |  |
| NO.      |  |

|                 |                                   |
|-----------------|-----------------------------------|
| COMPANY NAME    | HRGreen.com                       |
| PROJECT CONTACT | Illinois Professional Design Firm |
| CLIENT          | #184-001322                       |
| DATE PLOTTED    |                                   |
| PLOT DRIVER     |                                   |
| PEN TABLE       |                                   |



|                       |            |           |
|-----------------------|------------|-----------|
| USER NAME = bhar-tma  | DESIGNED - | REVISED - |
|                       | DRAWN -    | REVISED - |
| PLOT SCALE = 10H:10V  | CHECKED -  | REVISED - |
| PLOT DATE = 3/29/2018 | DATE -     | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20 AT HARMONY ROAD  
EASTBOUND HARMONY ROAD WEST LEG CROSS SECTIONS**

SCALE: 10H:10V SHEET 18 OF 35 SHEETS STA. 892+50.00 TO STA. 893+36.00

|                           |         |         |              |           |
|---------------------------|---------|---------|--------------|-----------|
| F.A.U. RTE.               | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
| 525                       | 11-N    | MCHENRY | 135          | 118       |
| CONTRACT NO.              |         |         | 60T01        |           |
| ILLINOIS FED. AID PROJECT |         |         |              |           |





|              |               |          |
|--------------|---------------|----------|
| FINAL SURVEY | SURVEYED      | DATE     |
| NO. _____    | PLOTTED       | BY _____ |
| NOTE BOOK    | TEMPLATE      |          |
| AREAS        | AREAS CHECKED |          |

|                 |               |          |
|-----------------|---------------|----------|
| ORIGINAL SURVEY | SURVEYED      | DATE     |
| NO. _____       | PLOTTED       | BY _____ |
| NOTE BOOK       | TEMPLATE      |          |
| AREAS           | AREAS CHECKED |          |

|                  |                                   |
|------------------|-----------------------------------|
| COMPANY NAME:    | HRGreen.com                       |
| PROJECT CONTACT: | Illinois Professional Design Firm |
| CLIENT:          | #184-001322                       |
| DATE PLOTTED:    | 3/29/2018                         |
| PLOT DRIVER:     | plotttbl1                         |

|           |           |
|-----------|-----------|
| USER NAME | = bhar-tm |
| DESIGNED  | -         |
| DRAWN     | -         |
| CHECKED   | -         |
| DATE      | -         |

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| REVIS | - |
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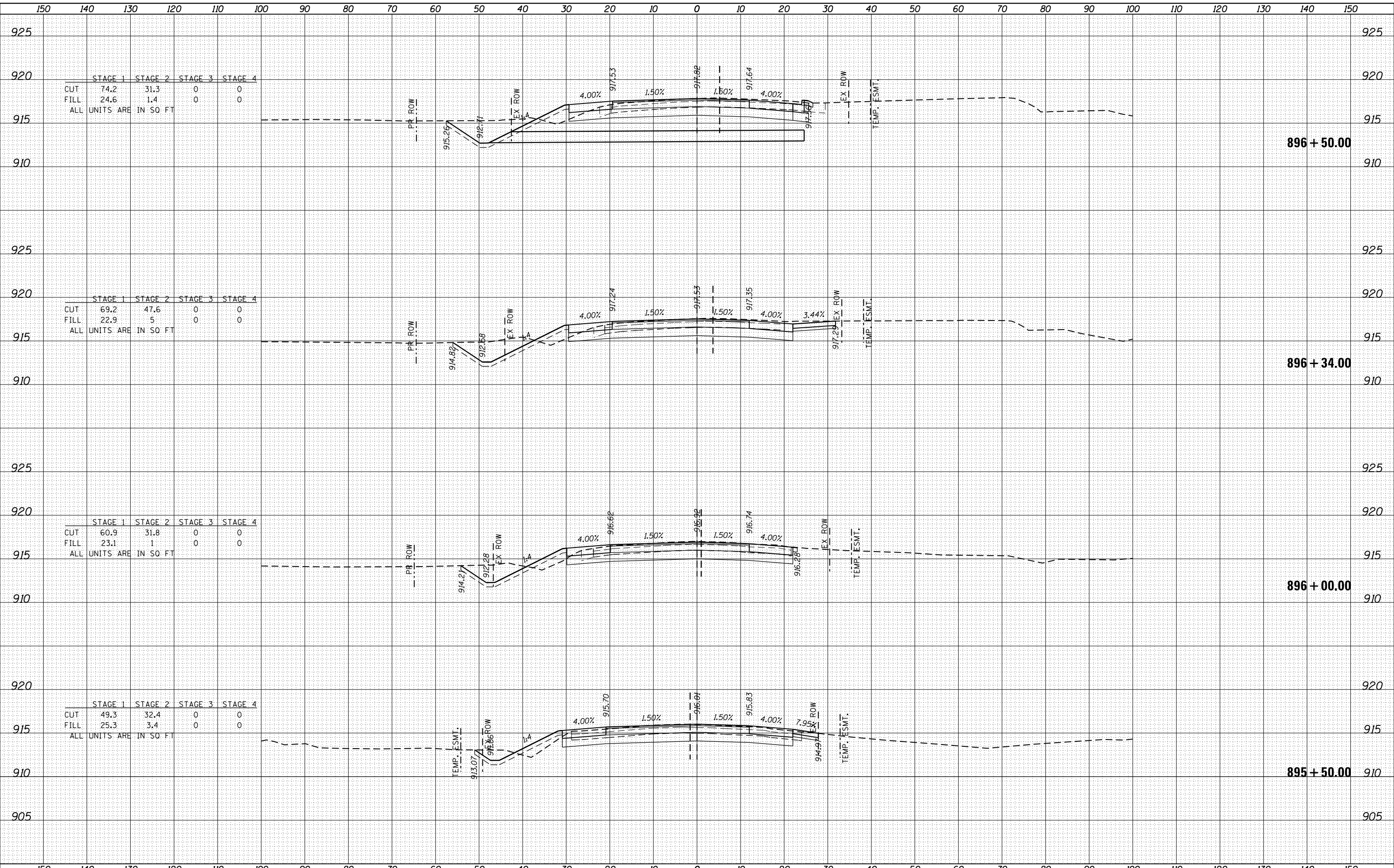
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**US ROUTE 20 AT HARMONY ROAD**  
**EASTBOUND HARMONY ROAD WEST LEG CROSS SECTIONS**

|             |         |         |              |           |
|-------------|---------|---------|--------------|-----------|
| F.A.U. RTE. | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
| 525         | 11-N    | MCHENRY | 135          | 120       |
|             |         |         | CONTRACT NO. | 60T01     |

SCALE: 10H:10V SHEET 20 OF 35 SHEETS STA. 895+50.00 TO STA. 896+50.00

ILLINOIS FED. AID PROJECT

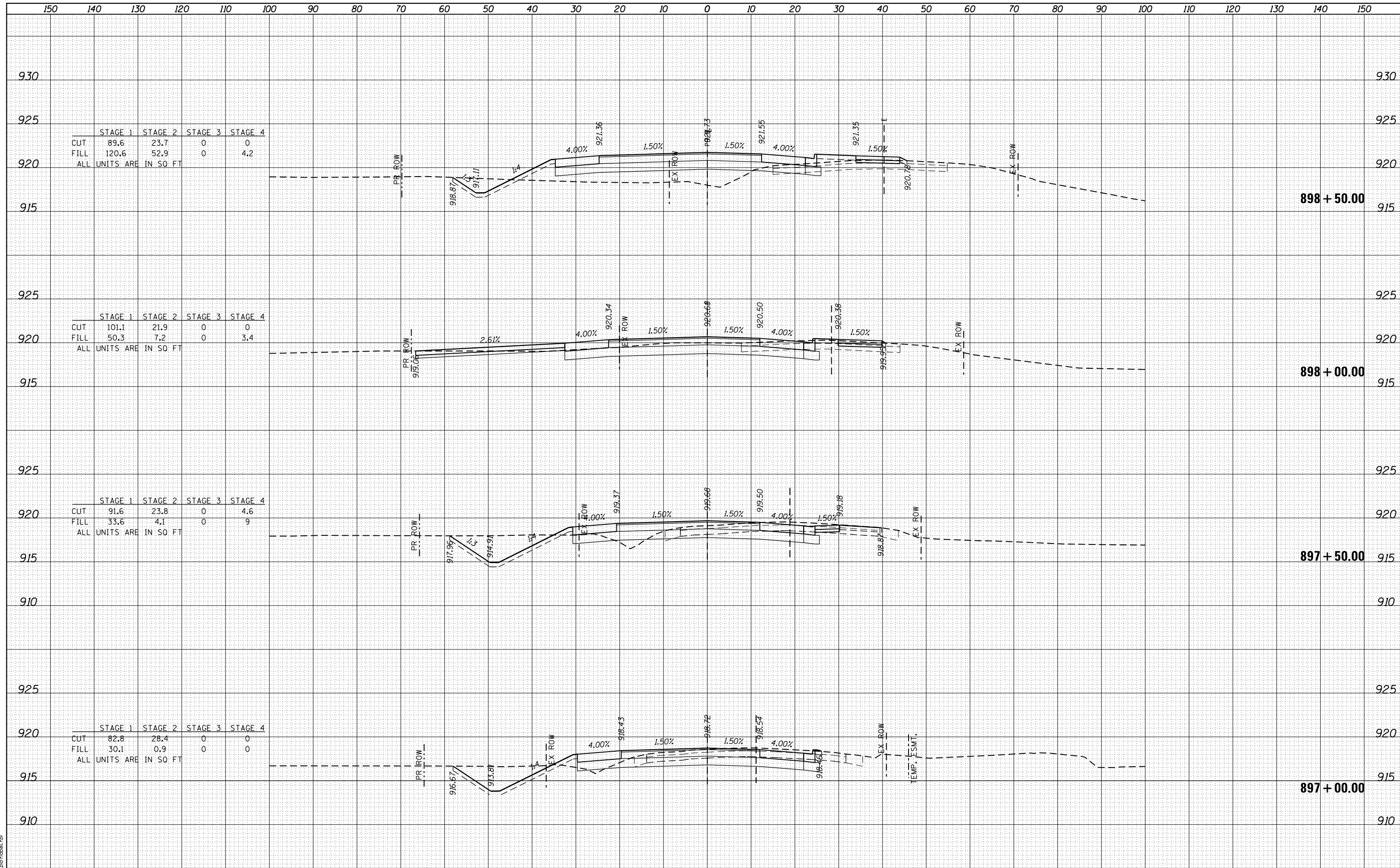


150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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| DATE     |  |
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| CHECKED  |  |
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| DATE     |  |
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|                 |                                   |
|-----------------|-----------------------------------|
| COMPANY NAME    | HRGreen.com                       |
| PROJECT CONTACT | Illinois Professional Design Firm |
| CLIENT          | #184-001322                       |
| DATE PLOTTED    |                                   |
| PLOT DRIVER     |                                   |
| PEN TABLE       |                                   |



|                        | STAGE 1 | STAGE 2 | STAGE 3 | STAGE 4 |
|------------------------|---------|---------|---------|---------|
| CUT                    | 89.6    | 23.7    | 0       | 0       |
| FILL                   | 120.6   | 52.9    | 0       | 4.2     |
| ALL UNITS ARE IN SO FT |         |         |         |         |

|                        | STAGE 1 | STAGE 2 | STAGE 3 | STAGE 4 |
|------------------------|---------|---------|---------|---------|
| CUT                    | 101.1   | 21.9    | 0       | 0       |
| FILL                   | 50.3    | 7.2     | 0       | 3.4     |
| ALL UNITS ARE IN SO FT |         |         |         |         |

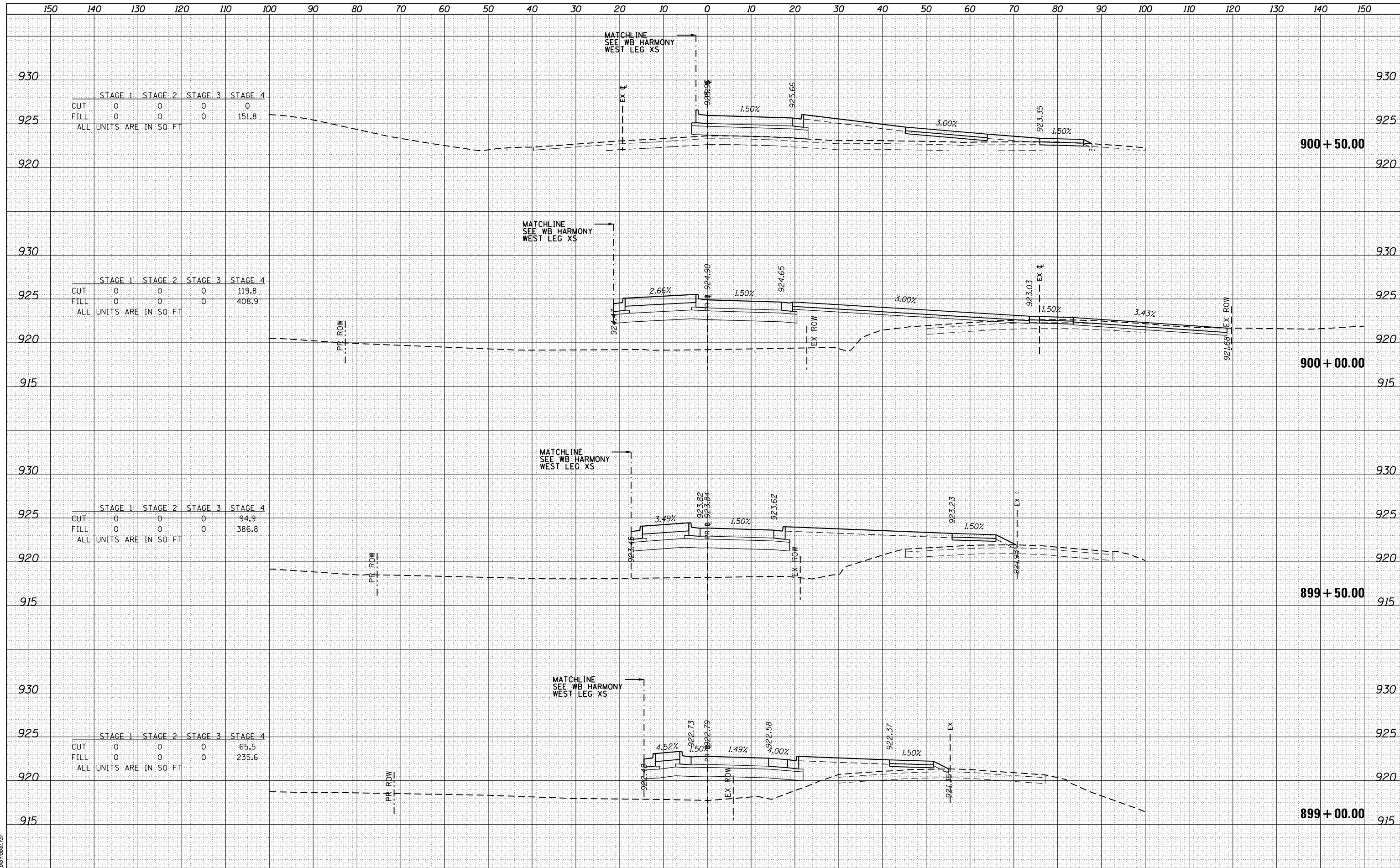
|                        | STAGE 1 | STAGE 2 | STAGE 3 | STAGE 4 |
|------------------------|---------|---------|---------|---------|
| CUT                    | 91.6    | 23.8    | 0       | 4.6     |
| FILL                   | 33.6    | 4.1     | 0       | 9       |
| ALL UNITS ARE IN SO FT |         |         |         |         |

|                        | STAGE 1 | STAGE 2 | STAGE 3 | STAGE 4 |
|------------------------|---------|---------|---------|---------|
| CUT                    | 82.8    | 28.4    | 0       | 0       |
| FILL                   | 30.1    | 0.9     | 0       | 0       |
| ALL UNITS ARE IN SO FT |         |         |         |         |

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| NOTE BOOK     |  |
| AREAS CHECKED |  |
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| DATE          |  |
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| SURVEYED      |  |
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| NOTE BOOK     |  |
| AREAS CHECKED |  |
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|-------------------|--|
| COMPANY NAME #    |  |
| PROJECT CONTACT # |  |
| CLIENT #          |  |
| DATE PLOTTED      |  |
| PLOT DRIVER       |  |
| PEN TABLE         |  |



|                        | STAGE 1 | STAGE 2 | STAGE 3 | STAGE 4 |
|------------------------|---------|---------|---------|---------|
| CUT                    | 0       | 0       | 0       | 0       |
| FILL                   | 0       | 0       | 0       | 151.8   |
| ALL UNITS ARE IN SQ FT |         |         |         |         |

|                        | STAGE 1 | STAGE 2 | STAGE 3 | STAGE 4 |
|------------------------|---------|---------|---------|---------|
| CUT                    | 0       | 0       | 0       | 119.8   |
| FILL                   | 0       | 0       | 0       | 408.9   |
| ALL UNITS ARE IN SQ FT |         |         |         |         |

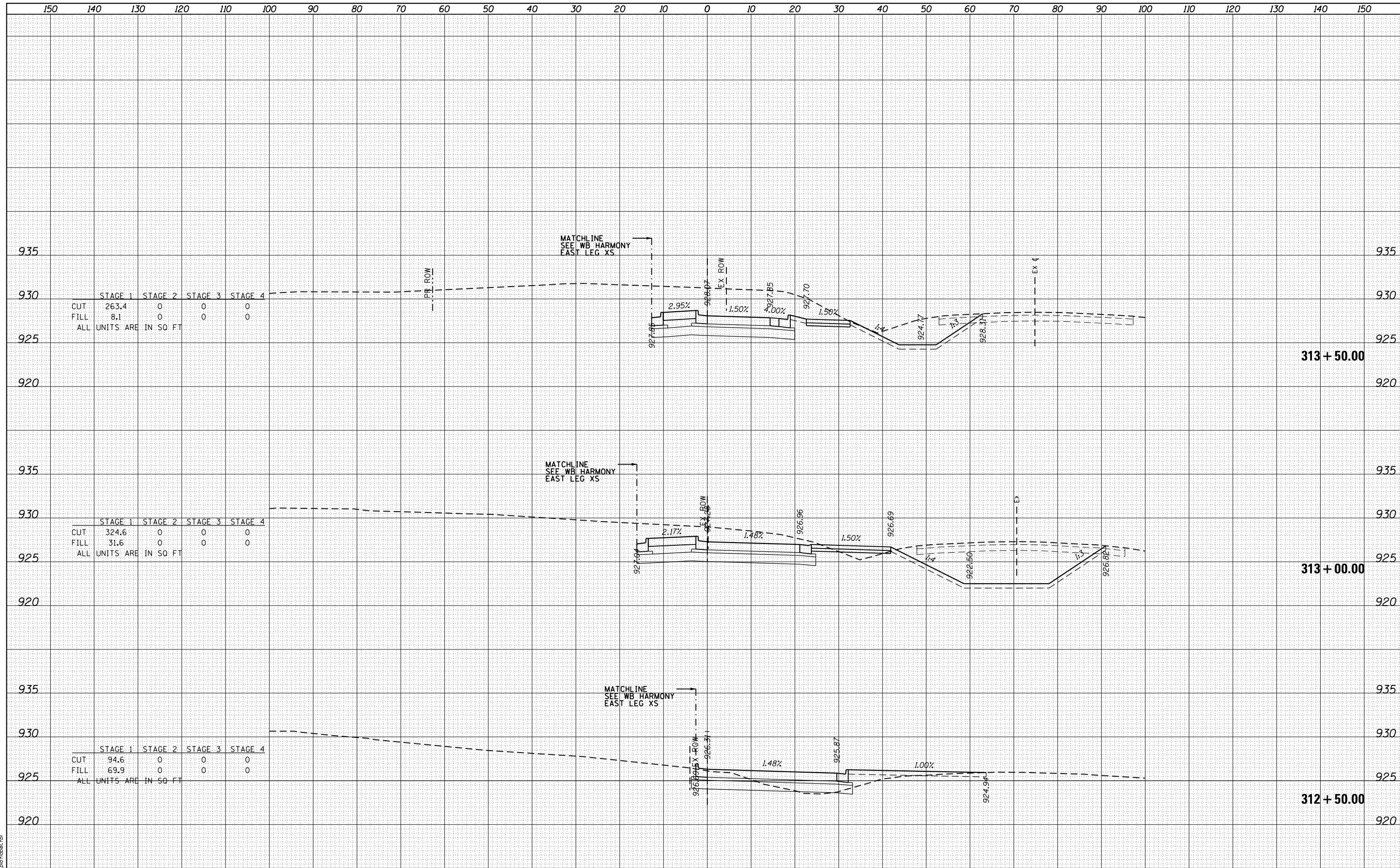
|                        | STAGE 1 | STAGE 2 | STAGE 3 | STAGE 4 |
|------------------------|---------|---------|---------|---------|
| CUT                    | 0       | 0       | 0       | 94.9    |
| FILL                   | 0       | 0       | 0       | 386.8   |
| ALL UNITS ARE IN SQ FT |         |         |         |         |

|                        | STAGE 1 | STAGE 2 | STAGE 3 | STAGE 4 |
|------------------------|---------|---------|---------|---------|
| CUT                    | 0       | 0       | 0       | 65.5    |
| FILL                   | 0       | 0       | 0       | 235.6   |
| ALL UNITS ARE IN SQ FT |         |         |         |         |

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| DATE     |  |
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| DATE     |  |
| BY       |  |
| SURVEYED |  |
| PLOTTED  |  |
| TEMPLATE |  |
| AREAS    |  |
| CHECKED  |  |
| NO.      |  |



| STAGE 1                  | STAGE 2 | STAGE 3 | STAGE 4 |
|--------------------------|---------|---------|---------|
| CUT 263.4                | 0       | 0       | 0       |
| FILL 8.1                 | 0       | 0       | 0       |
| ALL UNITS ARE IN SQ. FT. |         |         |         |

| STAGE 1                  | STAGE 2 | STAGE 3 | STAGE 4 |
|--------------------------|---------|---------|---------|
| CUT 324.6                | 0       | 0       | 0       |
| FILL 31.6                | 0       | 0       | 0       |
| ALL UNITS ARE IN SQ. FT. |         |         |         |

| STAGE 1                  | STAGE 2 | STAGE 3 | STAGE 4 |
|--------------------------|---------|---------|---------|
| CUT 94.6                 | 0       | 0       | 0       |
| FILL 69.9                | 0       | 0       | 0       |
| ALL UNITS ARE IN SQ. FT. |         |         |         |

COMPANY NAME: HRGreen.com  
 PROJECT CONTACT: Illinois Professional Design Firm  
 CLIENT: #184-001322  
 DATE PLOTTED:  
 PLOT DRIVER:  
 PEN TABLE:

|                       |            |           |
|-----------------------|------------|-----------|
| USER NAME = bhar-tma  | DESIGNED - | REVISED - |
|                       | DRAWN -    | REVISED - |
| PLOT SCALE = 10H:10V  | CHECKED -  | REVISED - |
| PLOT DATE = 3/29/2018 | DATE -     | REVISED - |

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

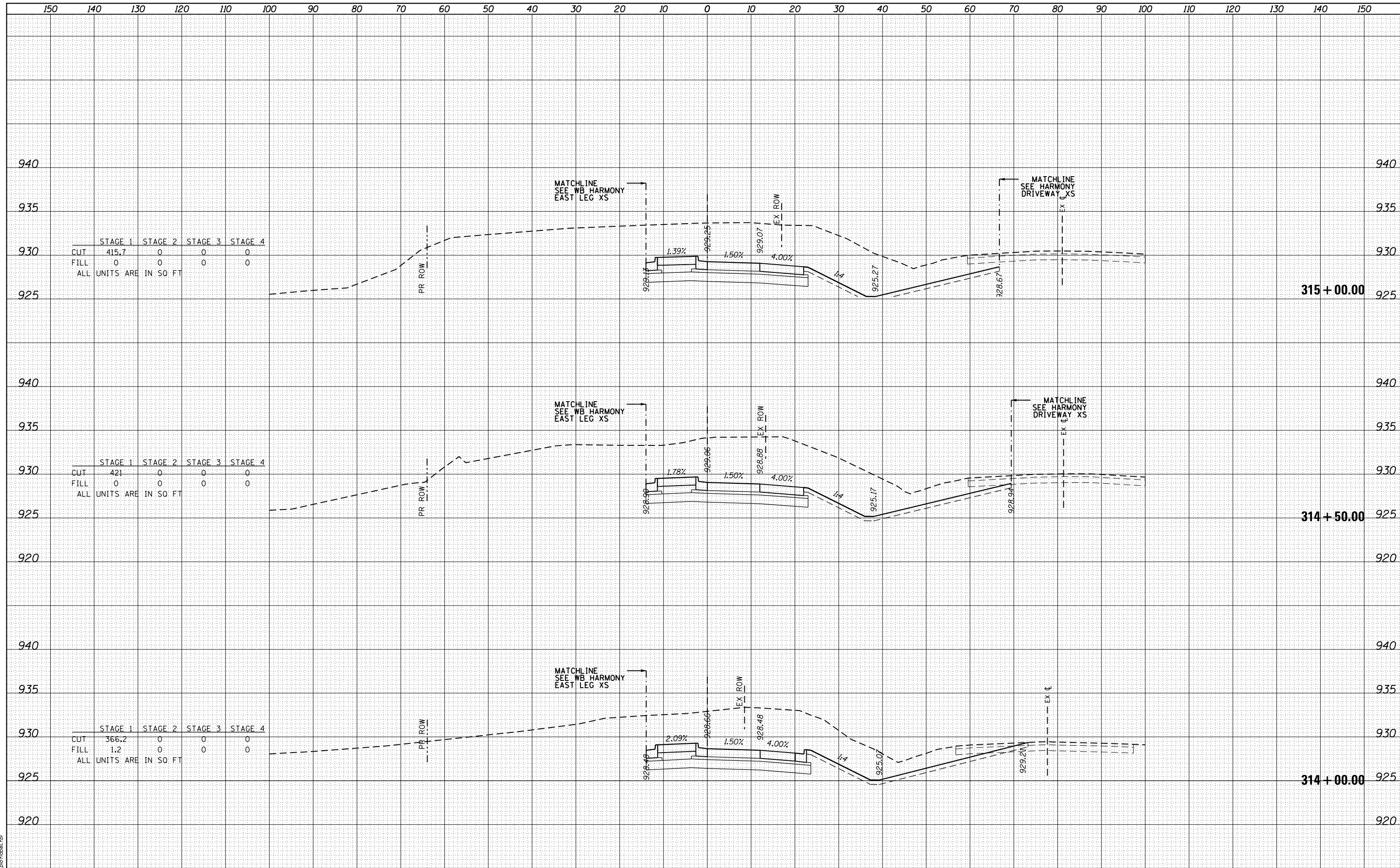
**US ROUTE 20 AT HARMONY ROAD**  
**EASTBOUND HARMONY ROAD EAST LEG CROSS SECTIONS**  
 SCALE: 10H:10V SHEET 23 OF 35 SHEETS STA. 312+50.00 TO STA. 313+50.00

|                    |              |                |                           |               |
|--------------------|--------------|----------------|---------------------------|---------------|
| F.A.U. RTE. 525    | SECTION 11-N | COUNTY MCHENRY | TOTAL SHEETS 135          | SHEET NO. 123 |
| CONTRACT NO. 60T01 |              |                | ILLINOIS FED. AID PROJECT |               |

|          |  |
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| DATE     |  |
| BY       |  |
| SURVEYED |  |
| PLOTTED  |  |
| TEMPLATE |  |
| AREAS    |  |
| CHECKED  |  |
| FINISH   |  |
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| DATE     |  |
| BY       |  |
| SURVEYED |  |
| PLOTTED  |  |
| TEMPLATE |  |
| AREAS    |  |
| CHECKED  |  |
| ORIGINAL |  |
| NO.      |  |

|                 |                                   |
|-----------------|-----------------------------------|
| COMPANY NAME    | HRGreen.com                       |
| PROJECT CONTACT | Illinois Professional Design Firm |
| CLIENT          | #184-001322                       |
| DATE PLOTTED    |                                   |
| PLOT DRIVER     |                                   |
| PEN TABLE       |                                   |



|                          | STAGE 1 | STAGE 2 | STAGE 3 | STAGE 4 |
|--------------------------|---------|---------|---------|---------|
| CUT                      | 415.7   | 0       | 0       | 0       |
| FILL                     | 0       | 0       | 0       | 0       |
| ALL UNITS ARE IN SQ. FT. |         |         |         |         |

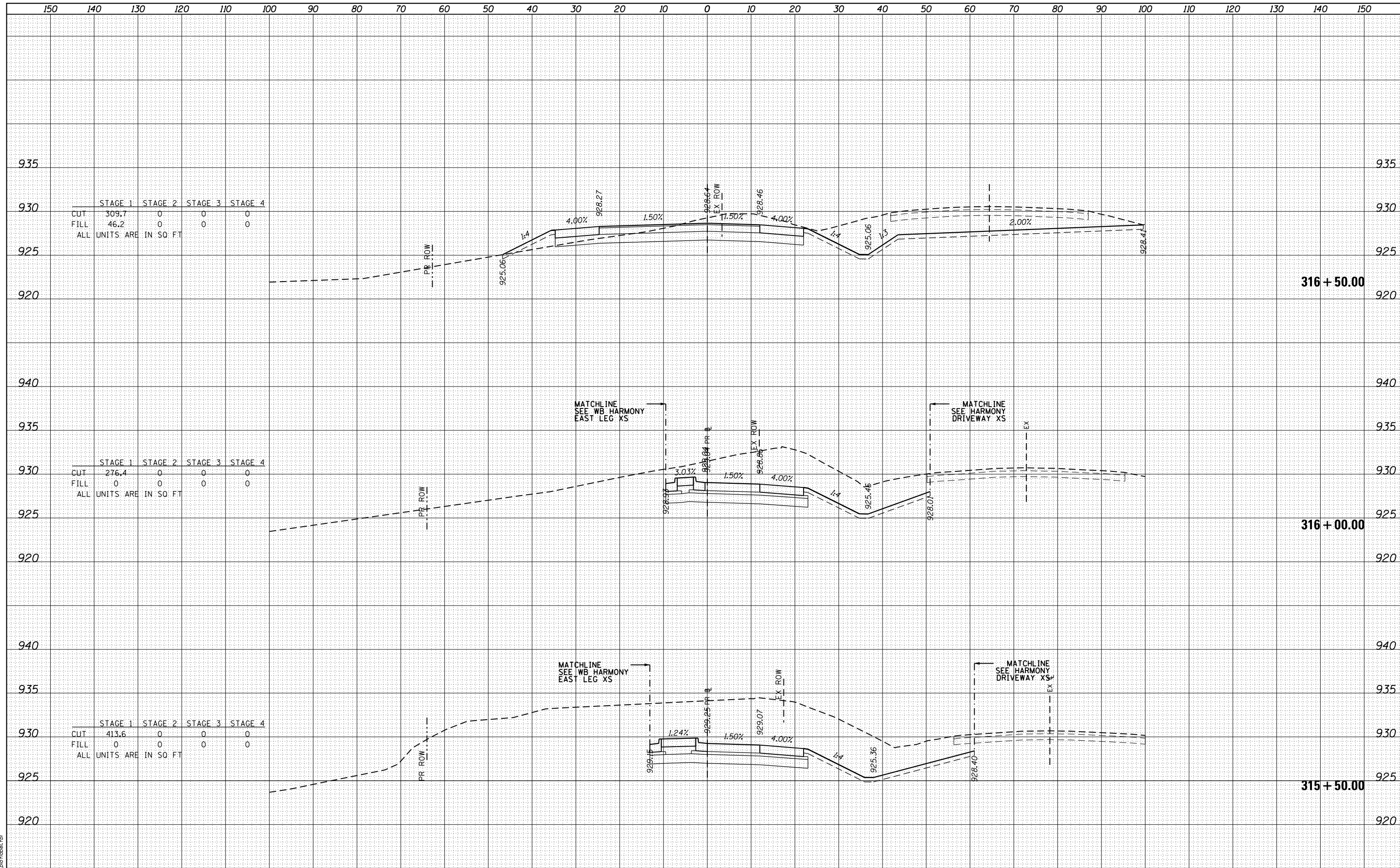
|                          | STAGE 1 | STAGE 2 | STAGE 3 | STAGE 4 |
|--------------------------|---------|---------|---------|---------|
| CUT                      | 421     | 0       | 0       | 0       |
| FILL                     | 0       | 0       | 0       | 0       |
| ALL UNITS ARE IN SQ. FT. |         |         |         |         |

|                          | STAGE 1 | STAGE 2 | STAGE 3 | STAGE 4 |
|--------------------------|---------|---------|---------|---------|
| CUT                      | 366.2   | 0       | 0       | 0       |
| FILL                     | 1.2     | 0       | 0       | 0       |
| ALL UNITS ARE IN SQ. FT. |         |         |         |         |

|          |  |
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| DATE     |  |
| BY       |  |
| SURVEYED |  |
| PLOTTED  |  |
| TEMPLATE |  |
| AREAS    |  |
| CHECKED  |  |
| FINISH   |  |
| NO.      |  |

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| DATE     |  |
| BY       |  |
| SURVEYED |  |
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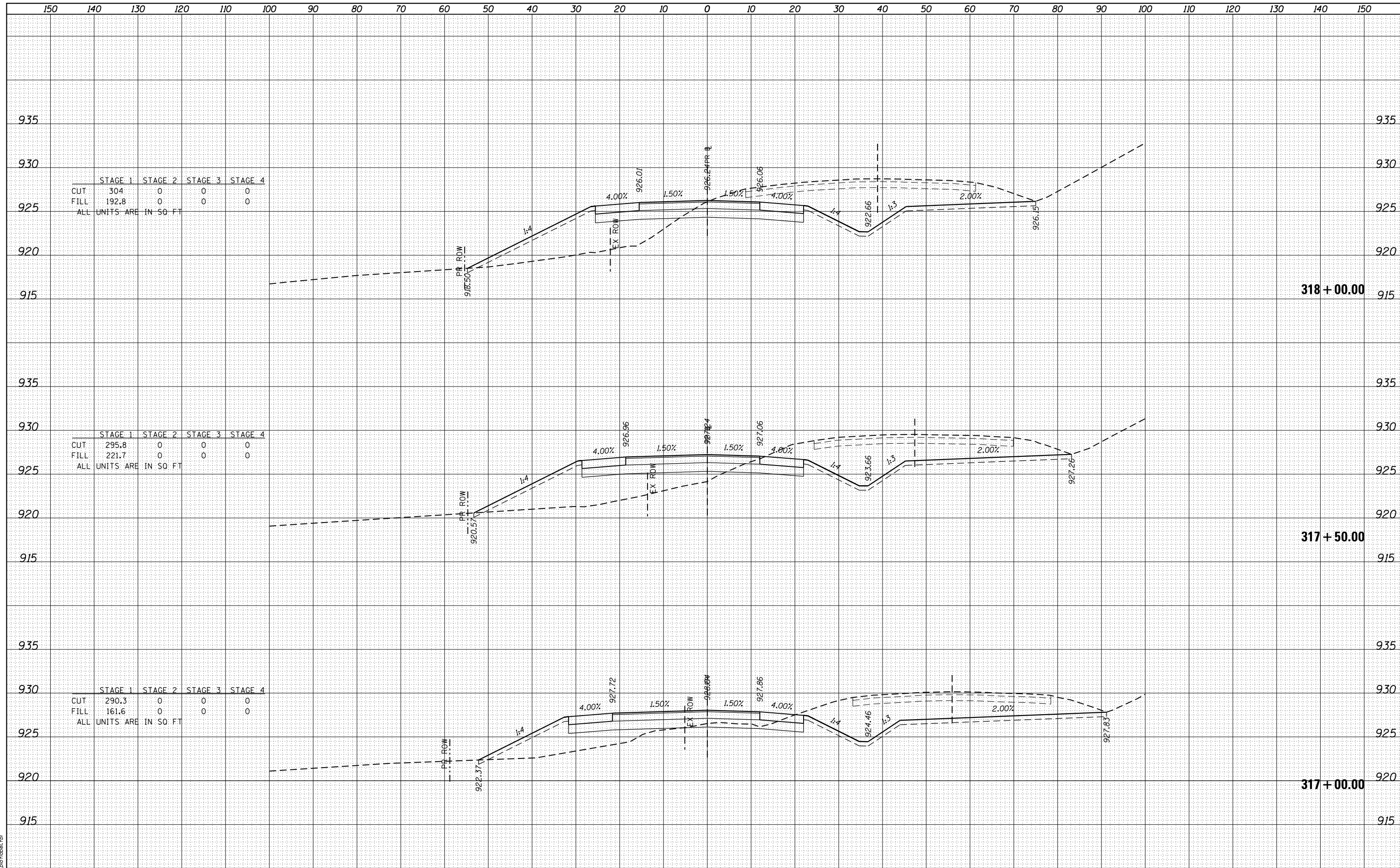
|                 |                      |
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| COMPANY NAME    | HRGreen.com          |
| PROJECT CONTACT |                      |
| CLIENT          |                      |
| DATE PLOTTED    | 3/29/2018 9:50:04 AM |
| PLOT DRIVER     | HPGL2                |
| PEN TABLE       | pen.tbl              |



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| DATE     |  |
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| NO.      |  |

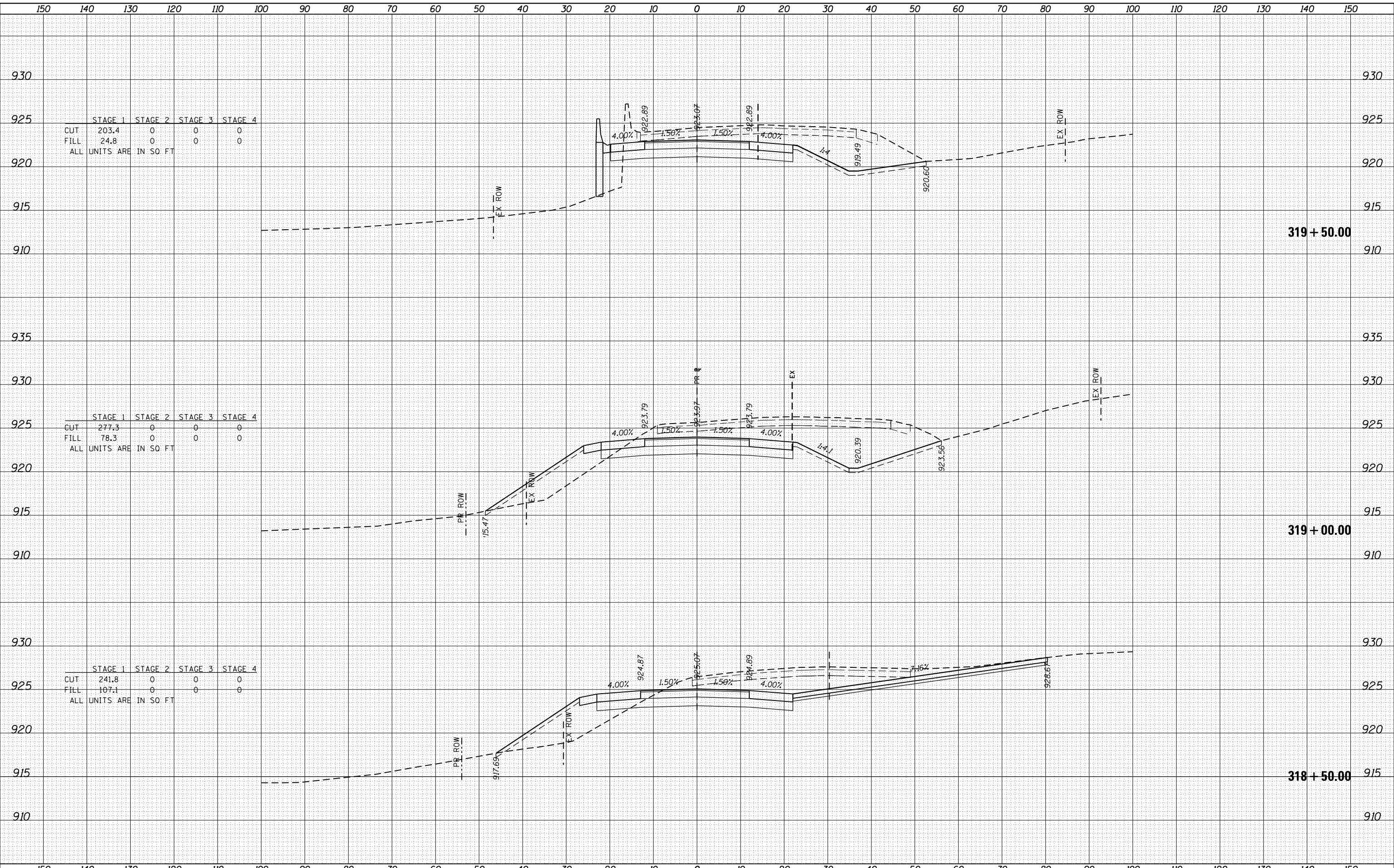
|                   |  |
|-------------------|--|
| COMPANY NAME #    |  |
| PROJECT CONTACT # |  |
| CLIENT #          |  |
| DATE PLOTTED      |  |
| PLOT DRIVER       |  |
| PEN TABLE         |  |



|          |  |
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| DATE     |  |
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| NO.      |  |

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| DATE     |  |
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| SURVEYED |  |
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| NO.      |  |

|                   |  |
|-------------------|--|
| COMPANY NAME #    |  |
| PROJECT CONTACT # |  |
| CLIENT #          |  |
| DATE PLOTTED      |  |
| PLOT DRIVER       |  |
| PEN TABLE         |  |



|                         | STAGE 1 | STAGE 2 | STAGE 3 | STAGE 4 |
|-------------------------|---------|---------|---------|---------|
| CUT                     | 203.4   | 0       | 0       | 0       |
| FILL                    | 24.8    | 0       | 0       | 0       |
| ALL UNITS ARE IN SO. FT |         |         |         |         |

|                         | STAGE 1 | STAGE 2 | STAGE 3 | STAGE 4 |
|-------------------------|---------|---------|---------|---------|
| CUT                     | 277.3   | 0       | 0       | 0       |
| FILL                    | 78.3    | 0       | 0       | 0       |
| ALL UNITS ARE IN SO. FT |         |         |         |         |

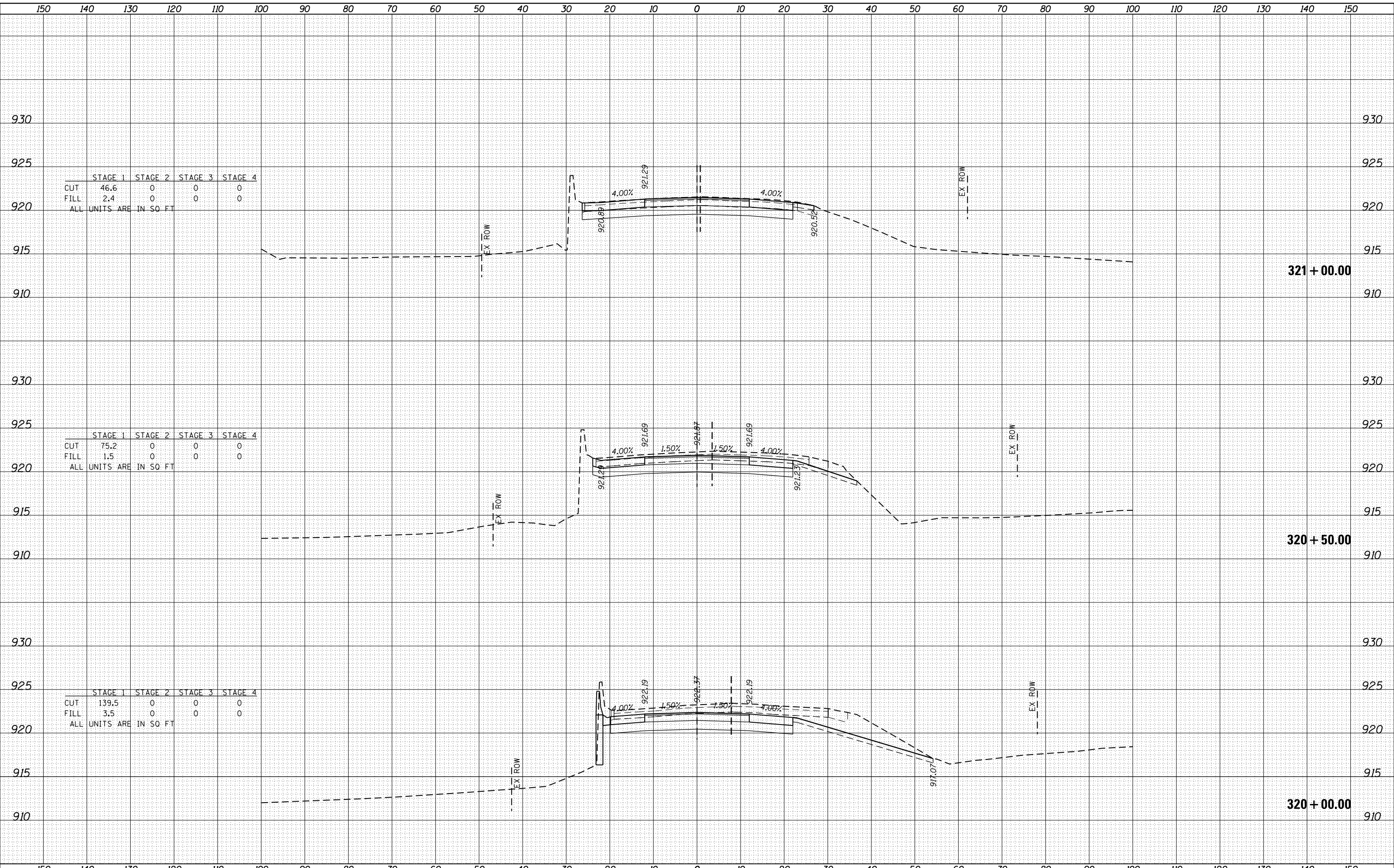
|                         | STAGE 1 | STAGE 2 | STAGE 3 | STAGE 4 |
|-------------------------|---------|---------|---------|---------|
| CUT                     | 241.8   | 0       | 0       | 0       |
| FILL                    | 107.1   | 0       | 0       | 0       |
| ALL UNITS ARE IN SO. FT |         |         |         |         |



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| DATE            |  |
| BY              |  |
| FINISHED SURVEY |  |
| PLOTTED         |  |
| NOTE BOOK       |  |
| AREAS CHECKED   |  |

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| DATE            |  |
| BY              |  |
| ORIGINAL SURVEY |  |
| PLOTTED         |  |
| NOTE BOOK       |  |
| AREAS CHECKED   |  |

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|-------------------|--|
| COMPANY NAME #    |  |
| PROJECT CONTACT # |  |
| CLIENT #          |  |
| DATE PLOTTED      |  |
| PLOT DRIVER       |  |
| PEN TABLE         |  |



|                          | STAGE 1 | STAGE 2 | STAGE 3 | STAGE 4 |
|--------------------------|---------|---------|---------|---------|
| CUT                      | 46.6    | 0       | 0       | 0       |
| FILL                     | 2.4     | 0       | 0       | 0       |
| ALL UNITS ARE IN SQ. FT. |         |         |         |         |

|                          | STAGE 1 | STAGE 2 | STAGE 3 | STAGE 4 |
|--------------------------|---------|---------|---------|---------|
| CUT                      | 75.2    | 0       | 0       | 0       |
| FILL                     | 1.5     | 0       | 0       | 0       |
| ALL UNITS ARE IN SQ. FT. |         |         |         |         |

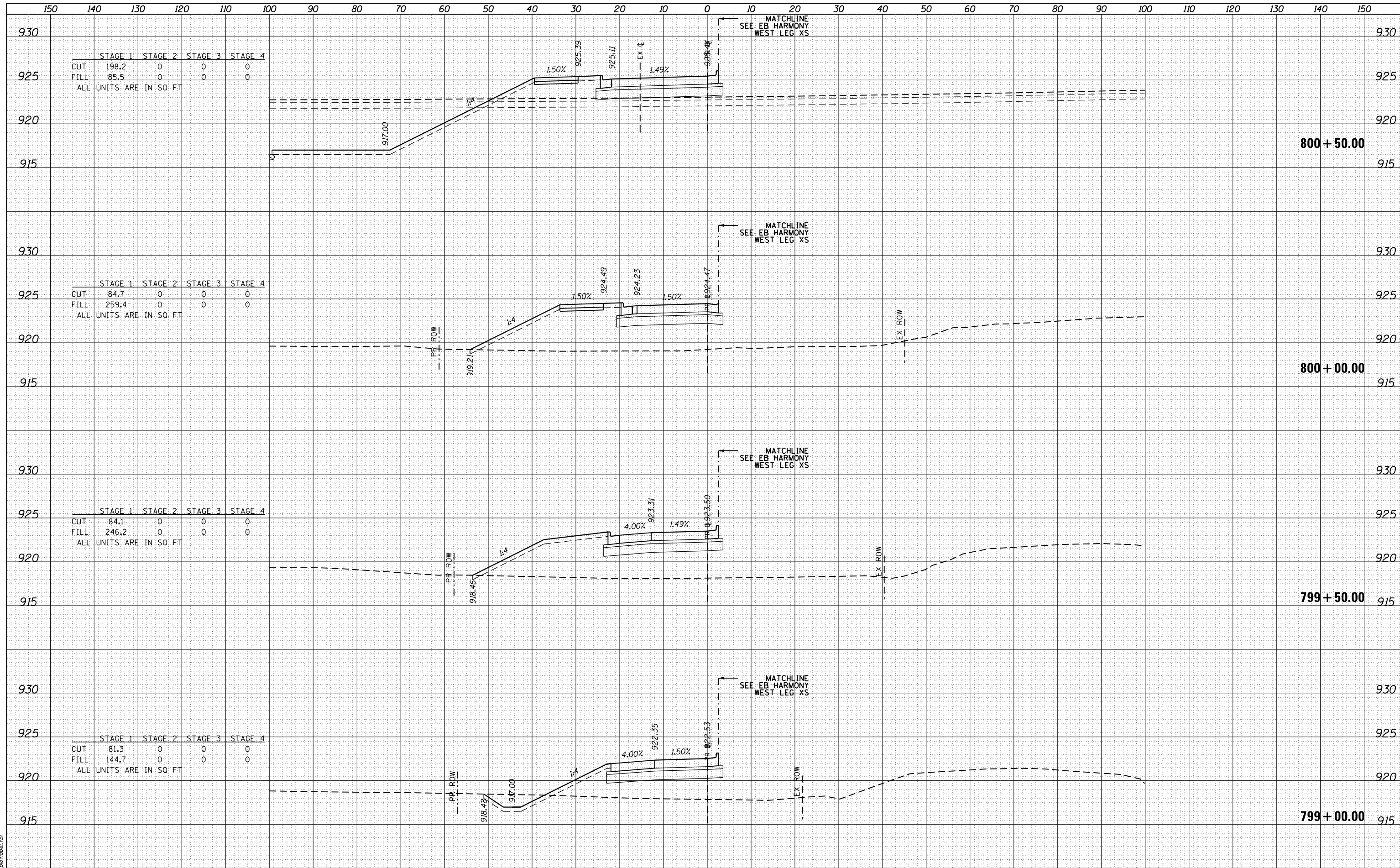
|                          | STAGE 1 | STAGE 2 | STAGE 3 | STAGE 4 |
|--------------------------|---------|---------|---------|---------|
| CUT                      | 139.5   | 0       | 0       | 0       |
| FILL                     | 3.5     | 0       | 0       | 0       |
| ALL UNITS ARE IN SQ. FT. |         |         |         |         |



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| DATE        |  |
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| SURVEYED    |  |
| PLOTTED     |  |
| TEMPLATE    |  |
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| CHECKED     |  |
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| NOTE BOOK   |  |
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| DATE            |  |
| BY              |  |
| SURVEYED        |  |
| PLOTTED         |  |
| TEMPLATE        |  |
| AREAS           |  |
| CHECKED         |  |
| ORIGINAL SURVEY |  |
| NOTE BOOK       |  |
| NO.             |  |

|                 |                                   |
|-----------------|-----------------------------------|
| COMPANY NAME    | HRGreen.com                       |
| PROJECT CONTACT | Illinois Professional Design Firm |
| CLIENT          | #184-001322                       |
| DATE PLOTTED    | 3/29/2018                         |
| PLOT DRIVER     | pen table                         |

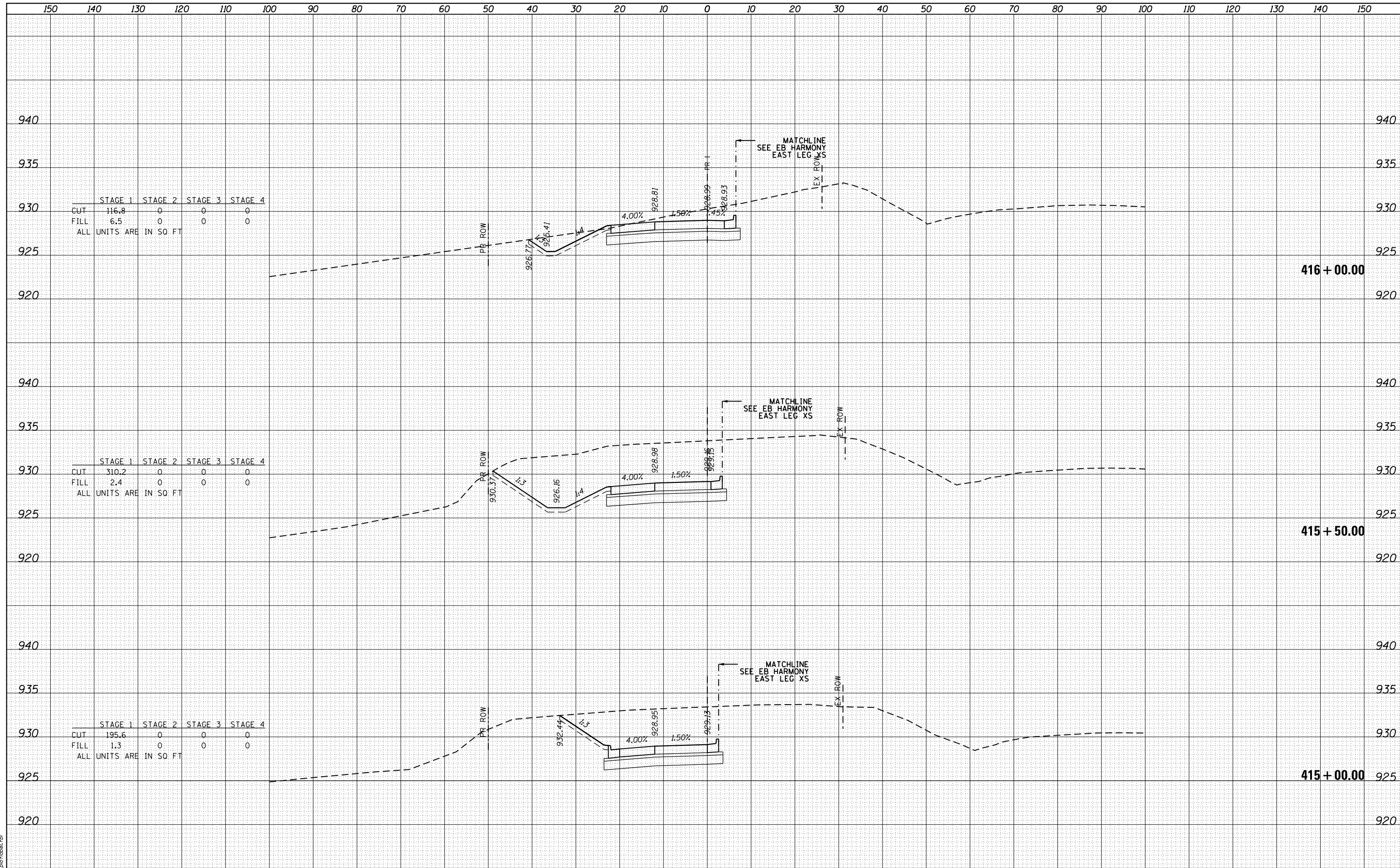




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| DATE     |  |
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| PLOTTED  |  |
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| DATE     |  |
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| SURVEYED |  |
| PLOTTED  |  |
| TEMPLATE |  |
| AREAS    |  |
| CHECKED  |  |
| ORIGINAL |  |
| NO.      |  |

|                 |                                   |
|-----------------|-----------------------------------|
| COMPANY NAME    | HRGreen.com                       |
| PROJECT CONTACT | Illinois Professional Design Firm |
| CLIENT          | #184-001322                       |
| DATE PLOTTED    |                                   |
| PLOT DRIVER     |                                   |
| PEN TABLE       |                                   |



|                          | STAGE 1 | STAGE 2 | STAGE 3 | STAGE 4 |
|--------------------------|---------|---------|---------|---------|
| CUT                      | 116.8   | 0       | 0       | 0       |
| FILL                     | 6.5     | 0       | 0       | 0       |
| ALL UNITS ARE IN SQ. FT. |         |         |         |         |

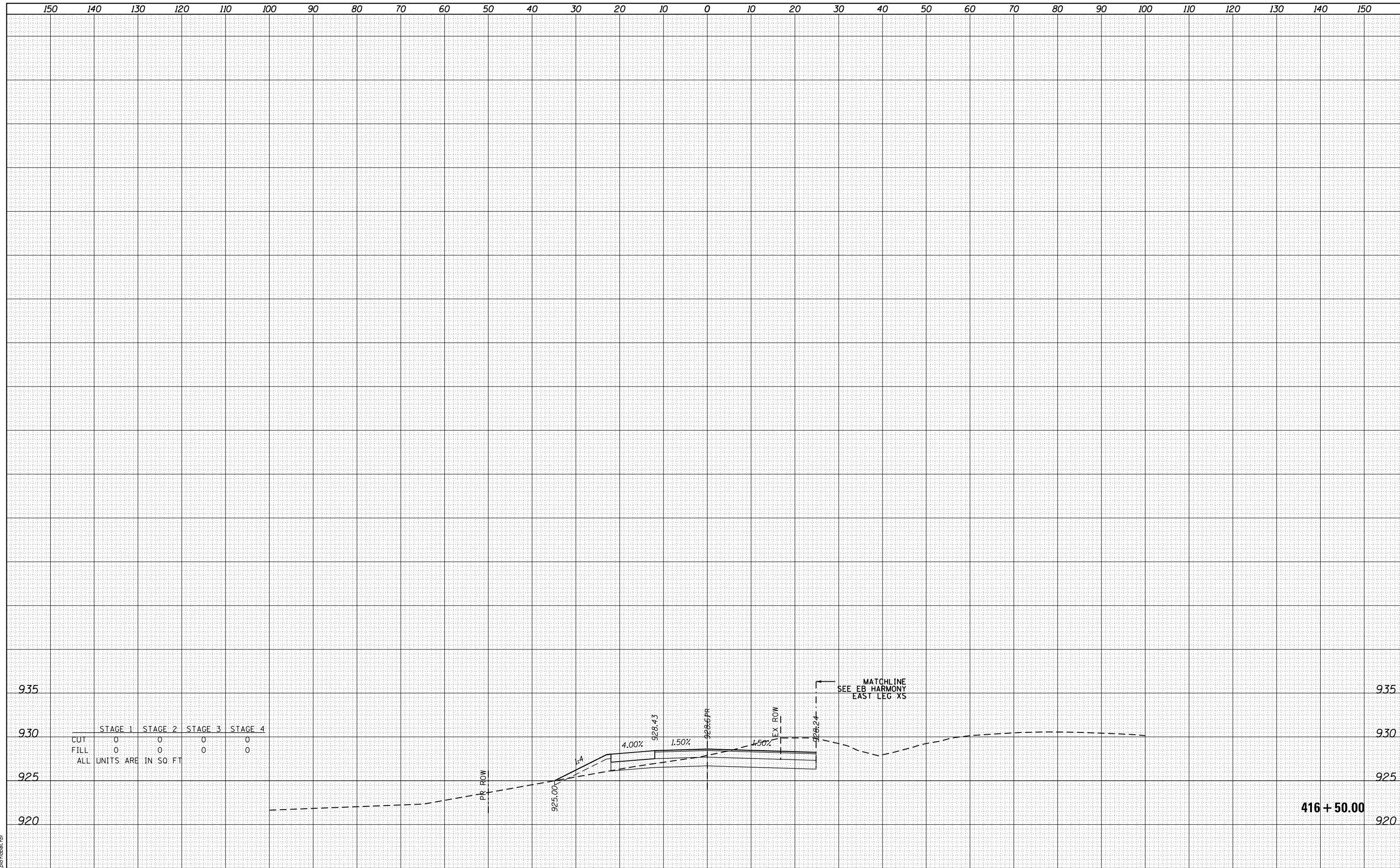
|                          | STAGE 1 | STAGE 2 | STAGE 3 | STAGE 4 |
|--------------------------|---------|---------|---------|---------|
| CUT                      | 310.2   | 0       | 0       | 0       |
| FILL                     | 2.4     | 0       | 0       | 0       |
| ALL UNITS ARE IN SQ. FT. |         |         |         |         |


|                          | STAGE 1 | STAGE 2 | STAGE 3 | STAGE 4 |
|--------------------------|---------|---------|---------|---------|
| CUT                      | 195.6   | 0       | 0       | 0       |
| FILL                     | 1.3     | 0       | 0       | 0       |
| ALL UNITS ARE IN SQ. FT. |         |         |         |         |

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| BY            |  |
| SURVEYED      |  |
| PLOTTED       |  |
| NOTE BOOK     |  |
| AREAS CHECKED |  |

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| DATE          |  |
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| SURVEYED      |  |
| PLOTTED       |  |
| NOTE BOOK     |  |
| AREAS CHECKED |  |

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|-----------------|--------------------|
| COMPANY NAME    | #COMPANY NAME #    |
| PROJECT CONTACT | #PROJECT CONTACT # |
| CLIENT          | #CLIENT #          |
| DATE PLOTTED    | DATE PLOTTED       |
| PLOT DRIVER     | PLOT DRIVER        |
| PEN TABLE       | PEN TABLE          |



|   |  |   |   |   |  |   |                                   |
|---|--|---|---|---|--|---|-----------------------------------|
|  HRGreen.com<br>Illinois Professional Design Firm<br>#184-001322 | USER NAME = bhar-tmo<br>DESIGNED -<br>DRAWN -<br>CHECKED -<br>DATE - | REVISED -<br>REVISED -<br>REVISED -<br>REVISED -                            | <b>STATE OF ILLINOIS</b><br><b>DEPARTMENT OF TRANSPORTATION</b> | <b>US ROUTE 20 AT HARMONY ROAD</b><br><b>WESTBOUND HARMONY ROAD EAST LEG CROSS SECTIONS</b> |  | F.A.U. RTE. 525<br>SECTION 11-N<br>COUNTY MCHENRY<br>CONTRACT NO. 60T01 | TOTAL SHEETS 135<br>SHEET NO. 133 |
|   | PLOT SCALE = 10H:10V<br>PLOT DATE = 3/29/2018                        | SCALE: 10H:10V<br>SHEET 33 OF 35 SHEETS<br>STA. 416+50.00 TO STA. 416+50.00 |   | ILLINOIS FED. AID PROJECT   |  |   |                                   |



