607922_HD1(TITLE).DWG Plotted on 29-Dec-2016 2:13 PM

# MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
# HIGHWAY DIVISION

PLAN AND PROFILE OF

## RAWSON STREET OVER CEDAR MEADOW POND INLET BRIDGE

## (BRIDGE NO. L-06-017)

IN THE CITY/TOWN OF

## LEICESTER

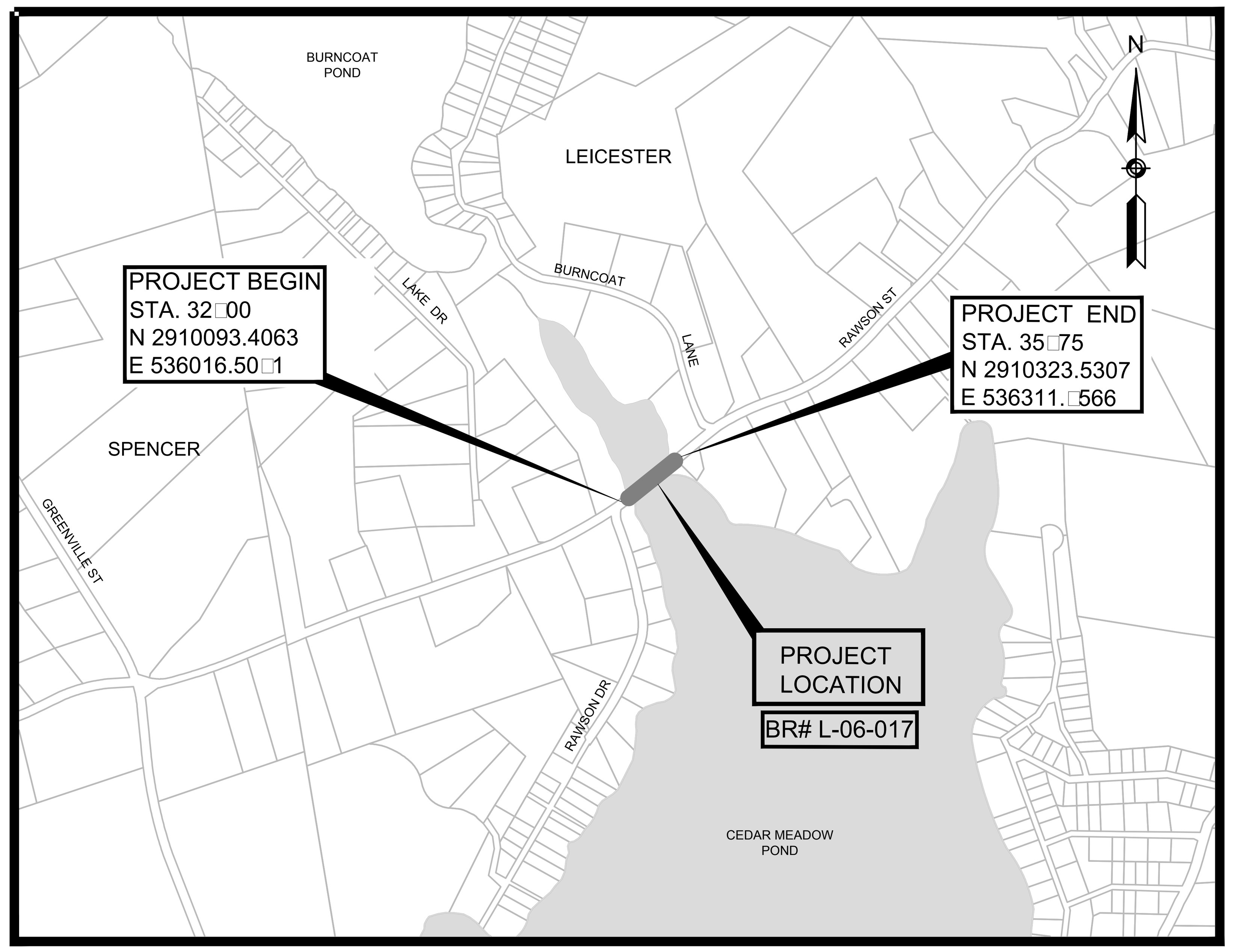
## WORCESTER COUNTY

FEDERAL AID PROJECT NO.

THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DATED 19□□, AS AMENDED, THE SUPPLEMENTAL SPECIFICATIONS DATED JULY 1, 2015, THE INTERIM SUPPLEMENTAL SPECIFICATIONS DATED MARCH 3, 2016, THE 2014 CONSTRUCTION STANDARD DETAILS, THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS WITH MASSACHUSETTS AMENDMENTS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE 196□ STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, AND THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, WILL GOVERN.

### INDEX






### DESIGN DESIGNATION (RAWSON STREET)

| | |
|---|---|
| DESIGN SPEED | 30 MPH |
| ADT (2013) | 700 |
| ADT (2033) | □60 |
| K | 11% |
| D | 56% |
| T (PEAK HOUR) | 9% |
| T (AVERAGE DAY) | 9% |
| DHV | 95 |
| DDHV | 53 |
| FUNCTIONAL CLASSIFICATION | URBAN COLLECTOR |

0 500 1000 1500 2000
SCALE: 1" □ 500'

LENGTH OF PROJECT □ 325 FEET □ 0.06 MILES

PREPARED BY:

CDR MAGUIRE

CDR M□□□re Inc.
2 Gr□n□te A□en□e, S□te 150
M□lton, M□□□□c□□□ett□021□6

ENGINEER DATE

massDOT Massachusetts Department of Transportation Highway Division

RECOMMENDED FOR APPROVAL

CHIEF ENGINEER DATE

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

APPROVED

HIGHWAY ADMINISTRATOR DATE

## GENERAL SYMBOLS

| EXISTING | PROPOSED | DESCRIPTION |
|---|---|---|
| JB | JB | JERSEY BARRIER |
| CB | CB | CATCH BASIN |
| | | CATCH BASIN CURB INLET |
| FP | FP | FLAG POLE |
| GP | GP | GAS PUMP |
| MB | MB | MAIL BOX |
| | | POST SQUARE |
| | | POST CIRCULAR |
| WELL | WELL | WELL |
| EHH | EHH | ELECTRIC HANDHOLE |
| | | FENCE GATE POST |
| GG | GG | GAS GATE |
| BHL # | BHL # | BORING HOLE |
| MW # | MW # | MONITORING WELL |
| TP # | TP # | TEST PIT |
| | | HYDRANT |
| | | LIGHT POLE |
| CO.BD. | | COUNTY BOUND |
| | | GPS POINT |
| | | CABLE MANHOLE |
| | | DRAINAGE MANHOLE |
| | | ELECTRIC MANHOLE |
| | | GAS MANHOLE |
| | | MISC MANHOLE |
| | | SEWER MANHOLE |
| | | TELEPHONE MANHOLE |
| | | WATER MANHOLE |
| MHB | MHB | MASSACHUSETTS HIGHWAY BOUND |
| MON | | MONUMENT |
| SB | | STONE BOUND |
| TB | | TOWN OR CITY BOUND |
| | | TRAVERSE OR TRIANGULATION STATION |
| TPL or GUY | TPL or GUY | TROLLEY POLE OR GUY POLE |
| HTP | | TRANSMISSION POLE |
| UFB | UFB | UTILITY POLE W/ FIREBOX |
| UPDL | UPDL | UTILITY POLE WITH DOUBLE LIGHT |
| ULT | ULT | UTILITY POLE W / 1 LIGHT |
| UPL | UPL | UTILITY POLE |
| | | BUSH |
| | | RIPRAP/BOULDER (EXIST) |
| | | TREE |
| | | TREE (OVER 14" DIA) |
| | | STUMP |
| | | SWAMP / MARSH |
| WG | WG | WATER GATE |
| PM | PM | PARKING METER |
| | | OVERHEAD CABLE/WIRE |
| | | CURBING |
| 100 99 | | CONTOURS (ON-THE-GROUND SURVEY DATA) |
| 100 99 | | CONTOURS (PHOTOGRAMMETRIC DATA) |
| | | UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER) |
| | | UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER) |
| | | UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER) |
| | | UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER) |
| | | UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER) |
| | | UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER) |
| | | BALANCED STONE WALL |
| | | GUARD RAIL - STEEL POSTS |
| | | GUARD RAIL - WOOD POSTS |
| x | x | CHAIN LINK OR METAL FENCE |
| | | WOOD FENCE |
| | | COMPOST FILTER TUBE |
| | | TREE LINE |
| | | SAWCUT LINE |
| | | TOP OR BOTTOM OF SLOPE |
| | | LIMIT OF EDGE OF PAVEMENT OR COLD PLANE AND OVERLAY |
| | | BANK OF RIVER OR STREAM |
| | | BORDER OF WETLAND |
| | | 100 FT WETLAND BUFFER |
| | | 200 FT RIVERFRONT BUFFER |
| | | STATE HIGHWAY LAYOUT |
| | | TOWN OR CITY LAYOUT |
| | | COUNTY LAYOUT |
| | | RAILROAD SIDELINE |
| | | TOWN OR CITY BOUNDARY LINE |
| | | PROPERTY LINE OR APPROXIMATE PROPERTY LINE |
| | | EASEMENT |
| | | FLOATING SILT FENCE |

## TRAFFIC SYMBOLS

| EXISTING | PROPOSED | DESCRIPTION |
|---|---|---|
| 1 | 1 | CONTROLLER PHASE ACTUATED |
| | | TRAFFIC SIGNAL HEAD (SIZE AS NOTED) |
| | | WIRE LOOP DETECTOR (6' x 6' TYP UNLESS OTHERWISE SPECIFIED) |
| | | VIDEO DETECTION CAMERA |
| | | MICROWAVE DETECTOR |
| | | PEDESTRIAN PUSH BUTTON, SIGN (DIRECTIONAL ARROW AS SHOWN) AND SADDLE |
| | | EMERGENCY PREEMPTION CONFIRMATION STROBE LIGHT |
| | | VEHICULAR SIGNAL HEAD |
| | | VEHICULAR SIGNAL HEAD, OPTICALLY PROGRAMMED |
| | | FLASHING BEACON |
| | | PEDESTRIAN SIGNAL HEAD, (TYPE AS NOTED OR AS SPECIFIED) |
| RRSG | RRSG | RAILROAD SIGNAL |
| OR | | SIGNAL POST AND BASE (ALPHA-NUMERIC DESIGNATION NOTED) |
| | 20' | MAST ARM, SHAFT AND BASE (ARM LENGTH AS NOTED) |
| | | HIGH MAST POLE OR TOWER |
| | | SIGN AND POST |
| | | SIGN AND POST (2 POSTS) |
| | 20' | MAST ARM WITH LUMINAIRE |
| | | OPTICAL PRE-EMPTION DETECTOR |
| | | CONTROL CABINET, GROUND MOUNTED |
| | | CONTROL CABINET, POLE MOUNTED |
| | | FLASHING BEACON CONTROL AND METER PEDESTAL |
| | | LOAD CENTER ASSEMBLY |
| | | PULL BOX 12"x12" (OR AS NOTED) |
| | | ELECTRIC HANDHOLE 12"x24" (OR AS NOTED) |
| | | TRAFFIC SIGNAL CONDUIT |

## PAVEMENT MARKINGS SYMBOLS

| EXISTING | PROPOSED | DESCRIPTION |
|---|---|---|
| | | PAVEMENT ARROW - WHITE |
| ONLY | ONLY | LEGEND "ONLY" - WHITE |
| | SL | STOP LINE |
| | CW | CROSSWALK |
| | SWL | SOLID WHITE LINE |
| | SYL | SOLID YELLOW LINE |
| | BWL | BROKEN WHITE LINE |
| | BYL | BROKEN YELLOW LINE |
| | DWL | DOTTED WHITE LINE |
| | DYL | DOTTED YELLOW LINE |
| | DWLEx | DOTTED WHITE LINE EXTENSION |
| | DYLEx | DOTTED YELLOW LINE EXTENSION |
| | DBWL | DOUBLE WHITE LINE |
| | DBYL | DOUBLE YELLOW LINE |

## ABBREVIATIONS

### GENERAL

| | |
|---|---|
| AADT | ANNUAL AVERAGE DAILY TRAFFIC |
| ABAN | ABANDON |
| ADJ | ADJUST |
| APPROX. | APPROXIMATE |
| A.C. | ASPHALT CONCRETE |
| ACCM PIPE | ASPHALT COATED CORRUGATED METAL PIPE |
| BIT. | BITUMINOUS |
| BC | BOTTOM OF CURB |
| BD. | BOUND |
| BL | BASELINE |
| BLDG | BUILDING |
| BM | BENCHMARK |
| BO | BY OTHERS |
| BOS | BOTTOM OF SLOPE |
| BR. | BRIDGE |
| CB | CATCH BASIN |
| CBCI | CATCH BASIN WITH CURB INLET |
| CC | CEMENT CONCRETE |
| CCM | CEMENT CONCRETE MASONRY |
| CEM | CEMENT |
| CI | CURB INLET |
| CIP | CAST IRON PIPE |
| CG | CLEAR AND GRUB |
| CLF | CHAIN LINK FENCE |
| CL | CENTERLINE |
| CMP | CORRUGATED METAL PIPE |
| CSP | CORRUGATED STEEL PIPE |
| CO. | COUNTY |
| CONC | CONCRETE |
| CONT | CONTINUOUS |
| CONST | CONSTRUCTION |
| CR GR | CROWN GRADE |
| DHV | DESIGN HOURLY VOLUME |
| DI | DROP INLET |
| DIA | DIAMETER |
| DIP | DUCTILE IRON PIPE |
| DW | STEADY DON'T WALK - PORTLAND ORANGE |
| DWY | DRIVEWAY |
| ELEV (or EL.) | ELEVATION |
| EMB | EMBANKMENT |
| EOP | EDGE OF PAVEMENT |
| EOW | EDGE OF WATER |
| EXIST (or EX) | EXISTING |
| EXC | EXCAVATION |
| F&C | FRAME AND COVER |
| F&G | FRAME AND GRATE |
| FDN. | FOUNDATION |
| FLDSTN | FIELDSTONE |
| GAR | GARAGE |
| GD | GROUND |
| GG | GAS GATE |
| GI | GUTTER INLET |
| GIP | GALVANIZED IRON PIPE |
| GRAN | GRANITE |
| GRAV | GRAVEL |
| GRD | GUARD |
| HDW | HEADWALL |
| HMA | HOT MIX ASPHALT |
| HOR | HORIZONTAL |
| HYD | HYDRANT |
| INV | INVERT |
| JCT | JUNCTION |
| L | LENGTH OF CURVE |
| LB | LEACH BASIN |
| LP | LIGHT POLE |
| LT | LEFT |
| MAX | MAXIMUM |
| MB | MAILBOX |
| MH | MANHOLE |
| MHB | MASSACHUSETTS HIGHWAY BOUND |
| MIN | MINIMUM |
| NIC | NOT IN CONTRACT |
| NO. | NUMBER |
| PC | POINT OF CURVATURE |
| PCC | POINT OF COMPOUND CURVATURE |
| P.G.L. | PROFILE GRADE LINE |
| PI | POINT OF INTERSECTION |
| POC | POINT ON CURVE |
| POT | POINT ON TANGENT |
| PRC | POINT OF REVERSE CURVATURE |
| PROJ | PROJECT |
| PROP | PROPOSED |
| PSB | PLANTABLE SOIL BORROW |
| PT | POINT OF TANGENCY |
| PVC | POINT OF VERTICAL CURVATURE |
| PVI | POINT OF VERTICAL INTERSECTION |
| PVT | POINT OF VERTICAL TANGENCY |

# LEICESTER
# RAWSON STREET OVER CEDAR MEADOW POND INLET BRIDGE

| STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|
| MA | N/A | 2 | 31 |
| PROJECT FILE NO. 607922 | | | |

**LEGEND & ABBREVIATIONS**

## ABBREVIATIONS (cont.)

### GENERAL

| | |
|---|---|
| PVMT | PAVEMENT |
| PWW | PAVED WATERWAY |
| R | RADIUS OF CURVATURE |
| R&D | REMOVE AND DISPOSE |
| RCP | REINFORCED CONCRETE PIPE |
| RD | ROAD |
| RDWY | ROADWAY |
| REM | REMOVE |
| RET | RETAIN |
| RET WALL | RETAINING WALL |
| ROW | RIGHT OF WAY |
| RR | RAILROAD |
| R&R | REMOVE AND RESET |
| R&S | REMOVE AND STACK |
| RT | RIGHT |
| SB | STONE BOUND |
| SHLD | SHOULDER |
| SMH | SEWER MANHOLE |
| ST | STREET |
| STA | STATION |
| SSD | STOPPING SIGHT DISTANCE |
| SHLO | STATE HIGHWAY LAYOUT LINE |
| SW | SIDEWALK |
| T | TANGENT DISTANCE OF CURVE/TRUCK % |
| TAN | TANGENT |
| TEMP | TEMPORARY |
| TC | TOP OF CURB |
| TOS | TOP OF SLOPE |
| TYP | TYPICAL |
| UP | UTILITY POLE |
| VAR | VARIES |
| VERT | VERTICAL |
| VC | VERTICAL CURVE |
| WCR | WHEEL CHAIR RAMP |
| WG | WATER GATE |
| WIP | WROUGHT IRON PIPE |
| WM | WATER METER/WATER MAIN |
| X-SECT | CROSS SECTION |

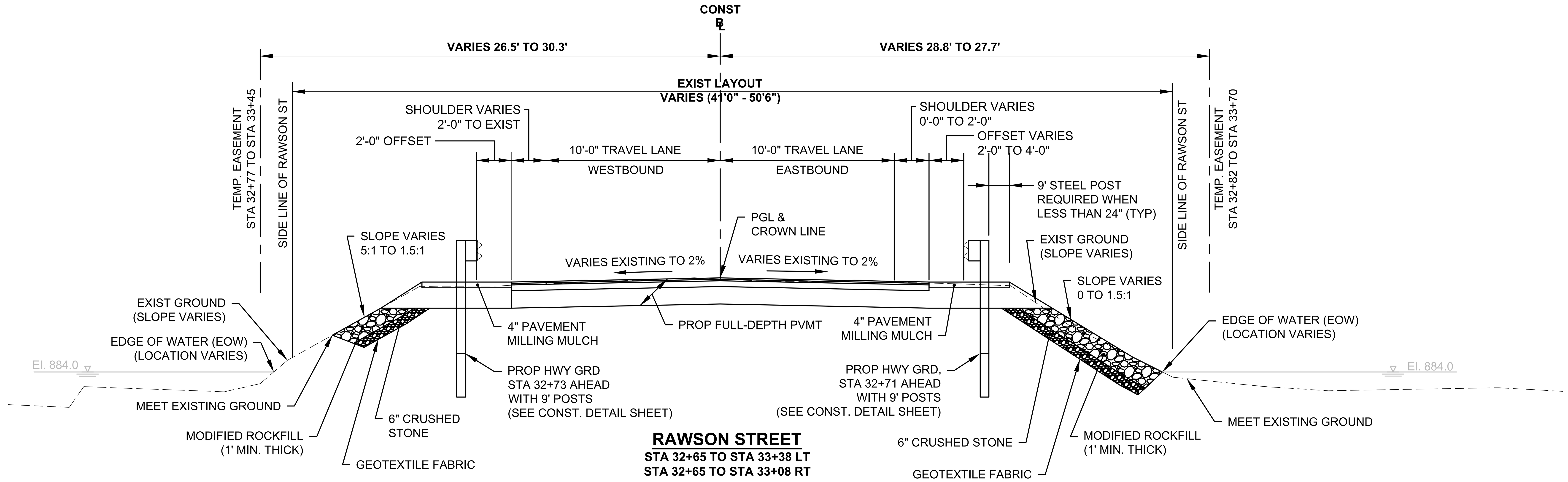
## TRAFFIC SIGNAL

| | |
|---|---|
| CAB. | CABINET |
| CCVE | CLOSED CIRCUIT VIDEO EQUIPMENT |
| DW | STEADY DON'T WALK |
| FDW | FLASHING DON'T WALK |
| FR | FLASHING CIRCULAR RED |
| FRL | FLASHING RED LEFT ARROW |
| FRR | FLASHING RED RIGHT ARROW |
| FY | FLASHING CIRCULAR AMBER |
| FYL | FLASHING AMBER LEFT ARROW |
| FYR | FLASHING AMBER RIGHT ARROW |
| G | STEADY CIRCULAR GREEN |
| GL | STEADY GREEN LEFT ARROW |
| GR | STEADY GREEN RIGHT ARROW |
| GSL | STEADY GREEN SLASH LEFT ARROW |
| GSR | STEADY GREEN SLASH RIGHT ARROW |
| GV | STEADY GREEN VERTICAL ARROW |
| OL | OVERLAP |
| PED | PEDESTRIAN |
| PTZ | PAN, TILE, ZOOM |
| R | STEADY CIRCULAR RED |
| RL | STEADY RED LEFT ARROW |
| RR | STEADY RED RIGHT ARROW |
| TR SIG | TRAFFIC SIGNAL |
| TSC | TRAFFIC SIGNAL CONDUIT |
| W | STEADY WALK |
| Y | STEADY CIRCULAR AMBER |
| YL | STEADY AMBER LEFT ARROW |

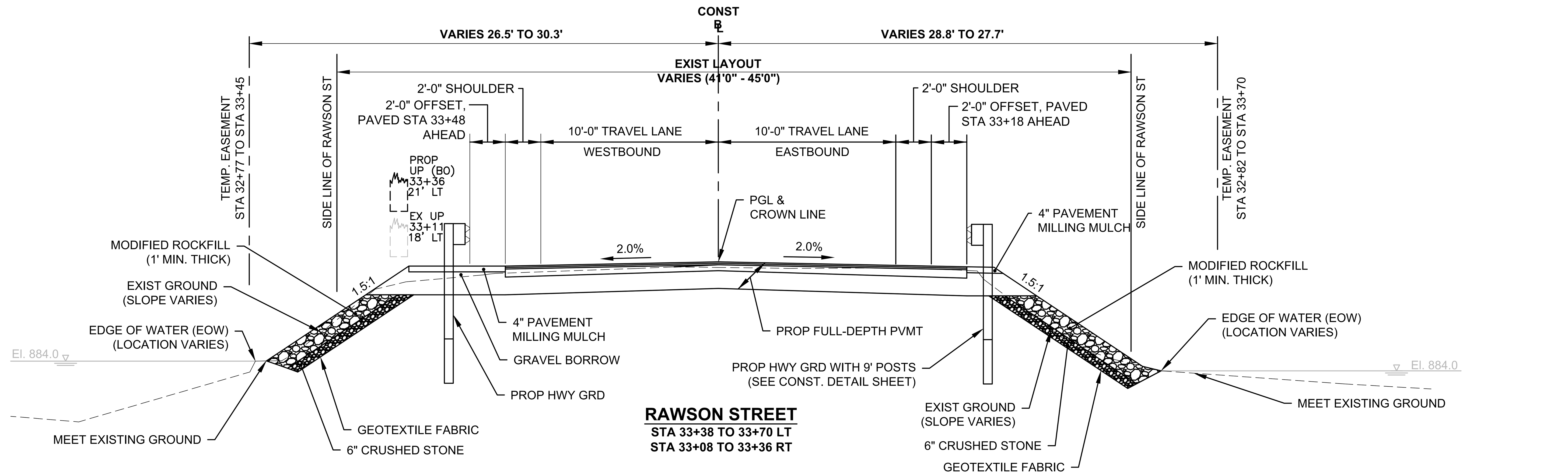
Plotted on 21-Dec-2016 9:56 AM
607922_HD2(LEGEND-01).DWG

# GENERAL NOTES

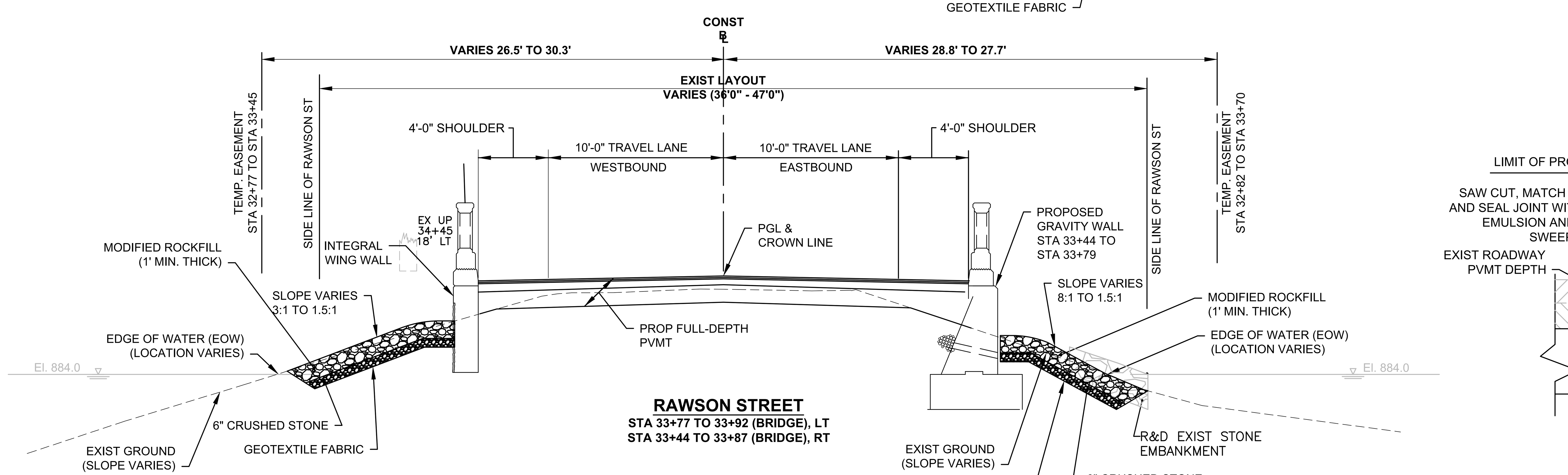
1. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT FOR REVIEW A SCHEDULE OF OPERATIONS IN ADDITION TO OTHER CONTRACT REQUIREMENTS TO THE ENGINEER.
2. THE EXISTING CONDITIONS SHOWN ON THIS BASEMAP ARE THE RESULT AN ON THE GROUND INSTRUMENT SURVEY PERFORMED BETWEEN JANUARY AND MARCH OF 2012 BY GCG ASSOCIATES.
3. WETLANDS WERE DELINEATED BY EPSILON ASSOCIATES ON SEPTEMBER 12, 2014 IN ACCORDANCE WITH THE MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION AND FIELD LOCATED BY GCG IN DECEMBER, 2014.
4. NORTH IS BASED UPON THE NORTH AMERICAN DATUM OF 1983 (NAD-83), MASSACHUSETTS STATE PLANE COORDINATE SYSTEM, MAINLAND ZONE. COORDINATES ARE BASED ON CONTROL PROVIDED BY THE MASSDOT SURVEY SECTION FOR GPS STATIONS RAW1 AND RAW2.
5. VERTICAL CONTROL IS BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 AS PROVIDED BY MASSDOT FOR GPS STATIONS RAW1 AND RAW2.
6. CONTOUR INTERVAL: 1 FOOT
7. OWNERSHIP AND DEED INFORMATION WAS OBTAINED FROM THE TOWN OF LEICESTER ASSESSORS OFFICE AND THE WORCESTER COUNTY REGISTRY OF DEEDS. ALL INFORMATION WAS CURRENT AS OF THE DATE OF THE SURVEY.
8. PROPERTY LINES SHOWN HEREON ARE APPROXIMATE ONLY AND ARE BASED UPON RECORD DEEDS, PLANS AND ASSESSORS INFORMATION.
9. THE TOWN SIDELINE FOR RAWSON STREET WAS CONSTRUCTED USING DEEDS AND PLANS OF RECORD, MONUMENTATION AND PHYSICAL FEATURES (STONE WALLS AND FENCES) AS LOCATED BY THIS FILED SURVEY. SEE PLAN REFERENCES. NO OFFICIAL LAYOUT FOR RAWSON STREET WAS FOUND THROUGH RESEARCH AT THE REGISTRY OF DEEDS AND TOWN OFFICES. PLAN BOOKS AND PLAN NUMBERS REFERENCED ALONG THE SIDELINE ARE FROM ABUTTING DEEDS AND DOCUMENTATION OBTAINED FROM THE ADJACENT PROPERTIES.
10. RAWSON STREET IS A PUBLIC WAY, BOTH RAWSON DRIVE AN BURNCOAT LANE ARE PRIVATE WAYS AS DETERMINED BY THE TOWN OF LEICESTER.
11. THE SIDELINE ALONG CLEAR MEADOW POND IS THE HIGH WATER MARK. THE SIDELINE SHOWN IS BASED UPON A SURVEY BY GCG ASSOCIATES ON JANUARY 9, 2011.
12. BEFORE SAWCUTTING, EXCAVATING, BACK FILLING, GRADING, PAVEMENT RESTORATION, OR REPAIRING, ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE CONTACTED, INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THESE PLANS. SEE CHAPTER 370, ACT OF 1963, MASSACHUSETTS GENERAL LAWS. THE OWNER AND ENGINEER ASSUME NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN. BEFORE PLANNING FUTURE CONNECTIONS, THE APPROPRIATE UTILITY ENGINEERING DEPARTMENT MUST BE CONSULTED. DIG SAFE AT 811 OR 1-(888) DIG-SAFE. REFER TO THE SPECIAL PROVISIONS FOR A LIST OF THE CONTACT PERSONS AT AFFECTED UTILITIES.
13. CONSTRUCTION WORK THAT WILL IMPACT EXISTING TRAVEL LANES SHALL BE PERFORMED IN A MANNER APPROVED BY THE ENGINEER.
14. IMPACTS TO ABUTTERS AND LOCAL BUSINESSES DUE TO CONSTRUCTION ACTIVITIES SHALL BE KEPT TO A MINIMUM. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SAFE AND REASONABLE ACCESS TO AND FROM ALL ABUTTING PROPERTIES AND BUSINESSES AT ALL TIMES AT NO ADDITIONAL COST.
15. THE CONTRACTOR SHALL EXCAVATE TEST PITS TO VERIFY LOCATIONS OF EXISTING UTILITIES AS INDICATED OR AS DIRECTED BY THE ENGINEER.
16. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE UTILITY COMPANIES DOING WORK IN THE SAME AREA. THE CONTRACTOR SHALL ALLOW THE UTILITY COMPANIES AND THEIR REPRESENTATIVES TO INSTALL THEIR SYSTEMS WITHIN RIGHT-OF-WAYS AND EASEMENTS.
17. NO EXISTING PUBLIC UTILITY STRUCTURES SHALL BE ABANDONED AND/OR DISMANTLED WITHOUT AUTHORIZATION FROM THE ENGINEER.
18. THE CONTRACTOR SHALL PROVIDE METHODS DURING DEWATERING OPERATIONS AND FOR STORM WATER RUNOFF NOT TO ALLOW SILT OR DEBRIS TO ENTER THE POND(S) OR CREATE NUISANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING EXISTING OR NEW FACILITIES IF SILTATION OCCURS DUE TO THE CONTRACTOR'S OPERATIONS.
19. FINAL LOCATION OF TRAFFIC SIGNS AND SUPPORTS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
20. DAMAGE OF PROPERTY BEYOND THE WORK LIMITS CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE, SUBJECT TO THE APPROVAL OF THE ENGINEER.
21. THE CONTRACTOR SHALL DISPOSE OF ALL WASTE MATERIAL IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS AT HIS OWN EXPENSE IF NOT OTHERWISE SPECIFIED, OUTSIDE OF THE PROJECT LIMITS.
22. IF THE CONTRACTOR DAMAGES UTILITY SERVICES, HE SHALL IMMEDIATELY NOTIFY THE RESPECTIVE UTILITY COMPANY AND SHALL IMMEDIATELY ASSIST THE UTILITY COMPANY TO REPLACE OR REPAIR THE DAMAGE.
23. SAFETY CONTROLS FOR CONSTRUCTION OPERATIONS SHALL BE IN ACCORDANCE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE MASSDOT MUTCD AND THE SPECIAL PROVISIONS.



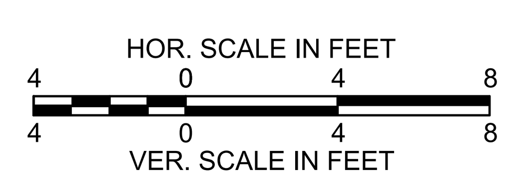

**RAWSON STREET**
STA 32+65 TO STA 33+38 LT
STA 32+65 TO STA 33+08 RT




**RAWSON STREET**
STA 33+38 TO 33+70 LT
STA 33+08 TO 33+36 RT




**RAWSON STREET**
STA 33+77 TO 33+92 (BRIDGE), LT
STA 33+44 TO 33+87 (BRIDGE), RT




# PAVEMENT NOTES

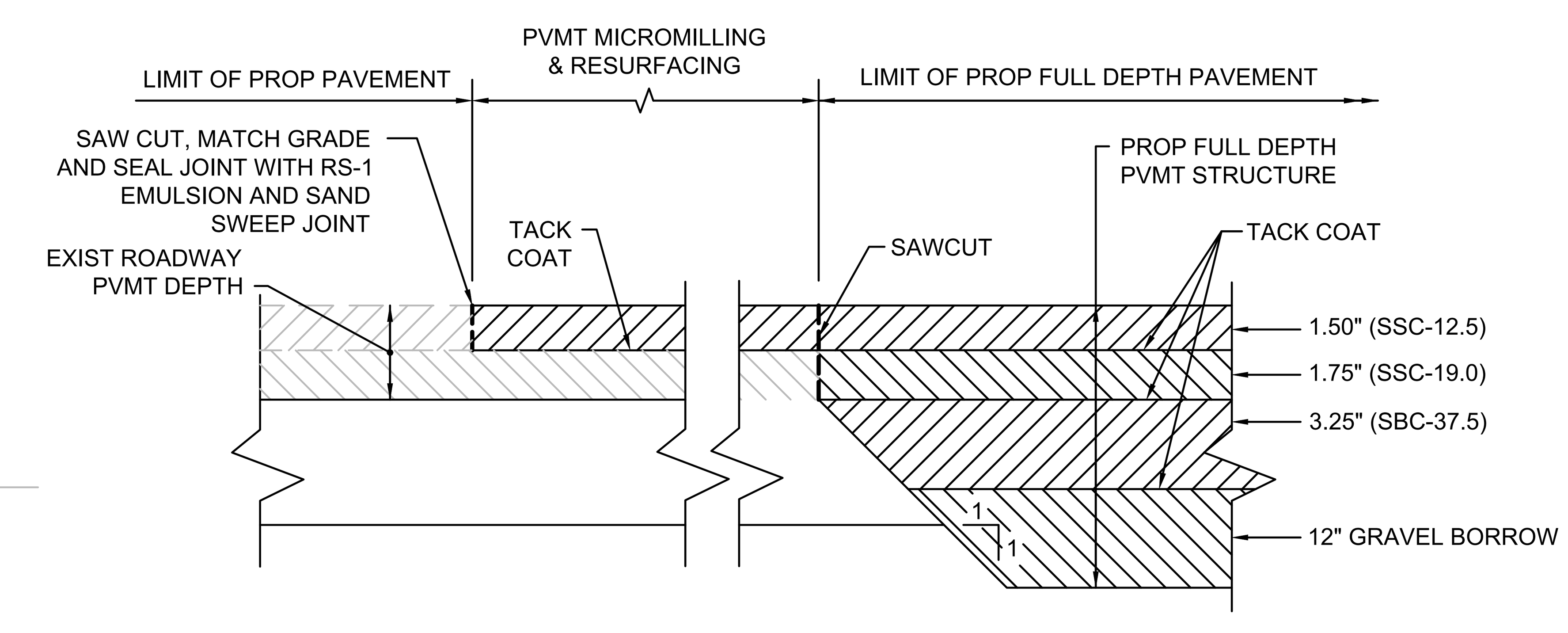
## PROPOSED FULL DEPTH PAVEMENT

| | |
|---|---|
| SURFACE: | 1½" HMA SUPERPAVE SURFACE COURSE -12.5 (SSC-12.5) |
| INTERMEDIATE: | 1¾" HMA SUPERPAVE INTERMEDIATE COURSE -19.0 (SIC-19.0) |
| BASE: | 3 ¼" HMA SUPERPAVE BASE COURSE -37.5 (SBC-37.5) PLACED IN TWO (2) EQUAL LAYERS. |
| SUBBASE: | 12" GRAVEL BORROW, TYPE B. |

## PROPOSED MICROMILLING & RESURFACING

| | |
|---|---|
| SURFACE: | 1½" HMA SUPERPAVE SURFACE COURSE -12.5 (SSC-12.5) |
| | ASPHALT EMULSION FOR TACK COAT (RS-1) AT 0.07 GAL/SY OVER EXISTING PAVEMENT |
| | 1½" - ±3" PAVEMENT MICROMILL TO MEET PROPOSED GRADING |

1. CLEAR AND GRUB (CG) EXISTING SLOPES TO PLACE NEW EMBANKMENT.
2. SEE CONSTRUCTION PLAN SHEET NO. 6 FOR LOCATION OF PROP HIGHWAY GUARD, HIGHWAY GUARD END TREATMENTS, AND BRIDGE RAIL TO HIGHWAY GUARD TRANSITIONS.
3. ASPHALT EMULSION FOR TACK COAT SHALL BE SPRAYED FOR 90% UNIFORM COVERAGE PRIOR TO PAVING, HMA JOINT SEALANT SHALL BE APPLIED TO ALL JOINTS IN THE SURFACE COURSE PRIOR TO PAVING SURFACE COURSE.
4. SEE STD. E103.1.0 FOR METHOD OF ROUNDING SLOPES.



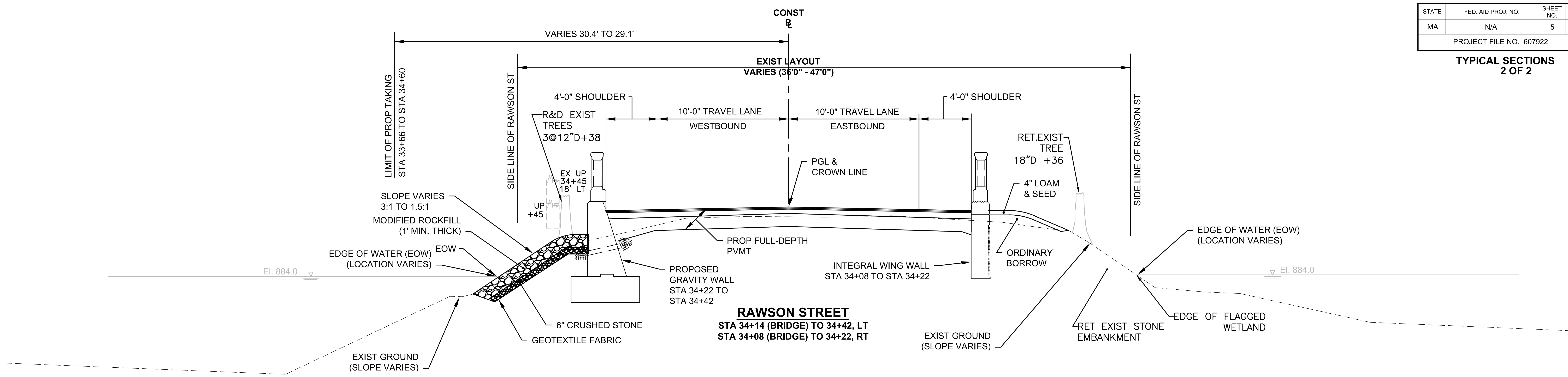

**PROPOSED HMA PAVEMENT MATCHING DETAIL**
NOT TO SCALE

607922_HD4-5(TYPSEC-01).DWG
Plotted on 29-Dec-2016 4:03 PM

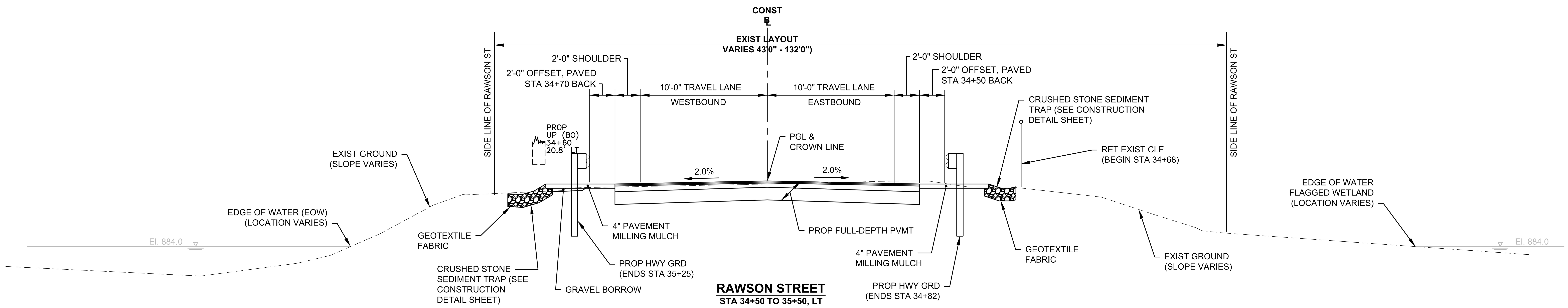
LEICESTER
RAWSON STREET OVER CEDAR MEADOW POND INLET BRIDGE

| STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|
| MA | N/A | 5 | 31 |
| PROJECT FILE NO. 607922 | | | |

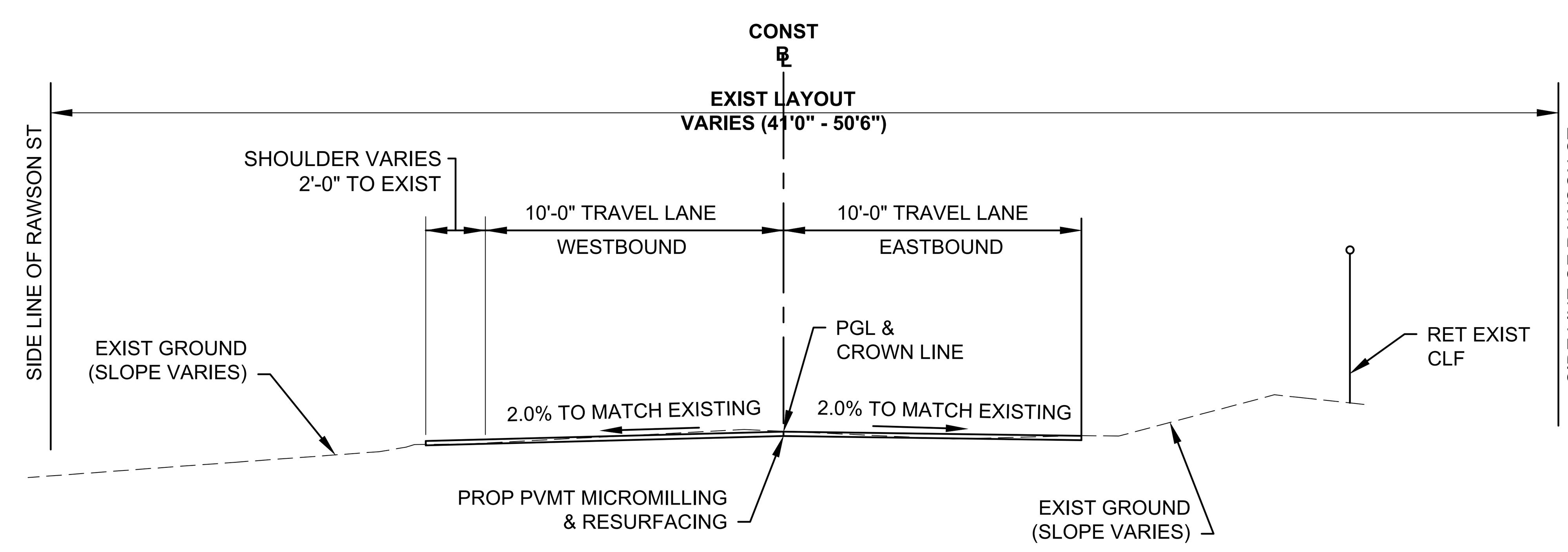
**TYPICAL SECTIONS**
**2 OF 2**




**RAWSON STREET**
STA 34+14 (BRIDGE) TO 34+42, LT
STA 34+08 (BRIDGE) TO 34+22, RT




**RAWSON STREET**
STA 34+50 TO 35+50, LT
STA 34+30 TO 35+50, RT




**RAWSON STREET**
STA 35+50 TO STA 35+75

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

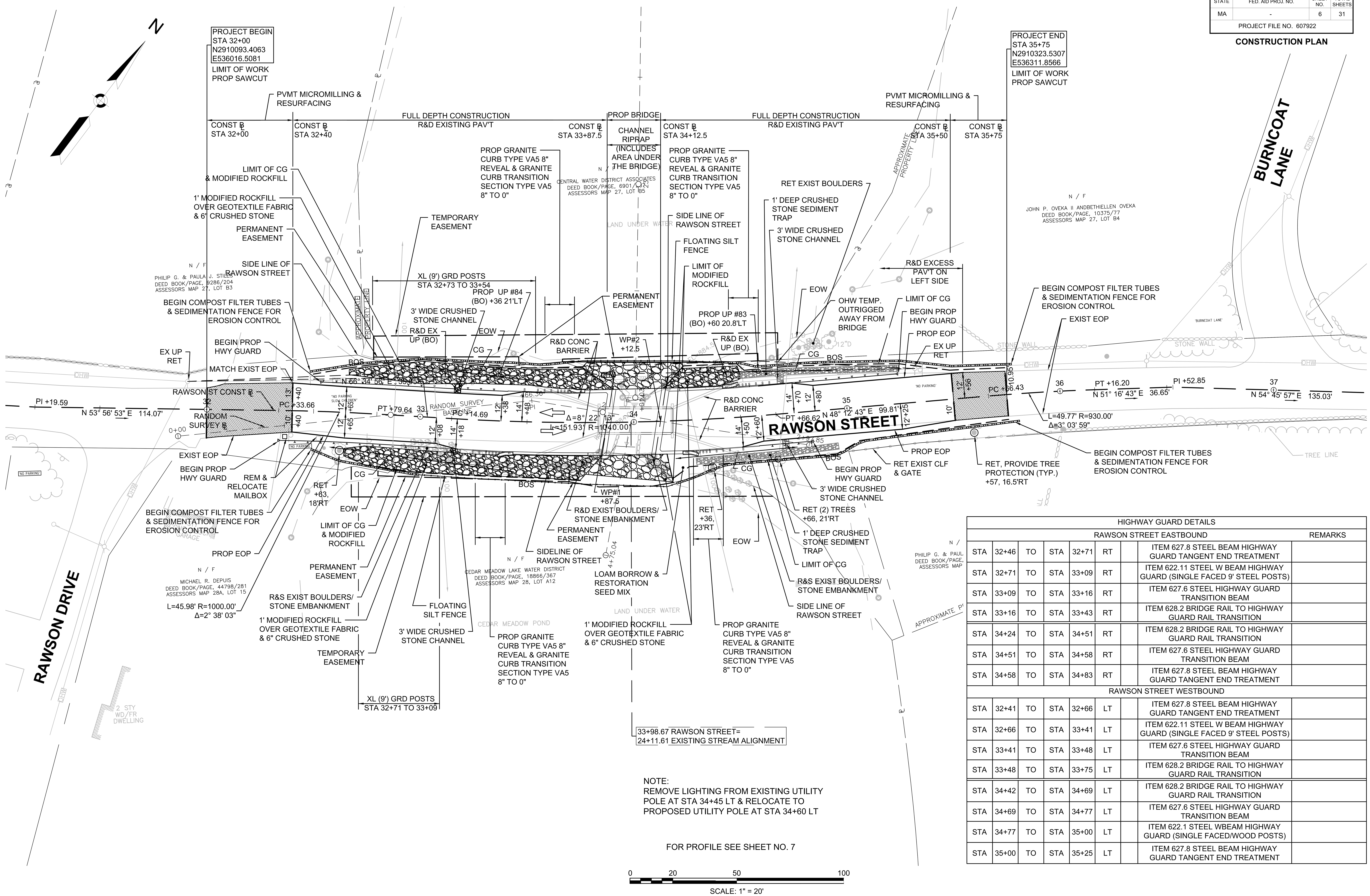
607922_HD4-5(TYPSEC-01).DWG    Plotted on 29-Dec-2016 4:51 PM

LEICESTER
RAWSON STREET OVER CEDAR MEADOW POND INLET BRIDGE

| STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|
| MA | - | 6 | 31 |
| PROJECT FILE NO. 607922 | | | |

CONSTRUCTION PLAN

HIGHWAY GUARD DETAILS SEE BELOW
DRAINAGE DETAILS SEE BELOW
CURB TIE DETAILS SEE SHEET NO. 8
TRAFFIC SIGNS & PVMT MARKINGS SEE SHEET NO. 9




NOTE:
REMOVE LIGHTING FROM EXISTING UTILITY POLE AT STA 34+45 LT & RELOCATE TO PROPOSED UTILITY POLE AT STA 34+60 LT

FOR PROFILE SEE SHEET NO. 7

| HIGHWAY GUARD DETAILS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| RAWSON STREET EASTBOUND | | | | | | | | REMARKS |
| STA | 32+46 | TO | STA | 32+71 | RT | | ITEM 627.8 STEEL BEAM HIGHWAY GUARD TANGENT END TREATMENT | |
| STA | 32+71 | TO | STA | 33+09 | RT | | ITEM 622.11 STEEL W BEAM HIGHWAY GUARD (SINGLE FACED 9' STEEL POSTS) | |
| STA | 33+09 | TO | STA | 33+16 | RT | | ITEM 627.6 STEEL HIGHWAY GUARD TRANSITION BEAM | |
| STA | 33+16 | TO | STA | 33+43 | RT | | ITEM 628.2 BRIDGE RAIL TO HIGHWAY GUARD RAIL TRANSITION | |
| STA | 34+24 | TO | STA | 34+51 | RT | | ITEM 628.2 BRIDGE RAIL TO HIGHWAY GUARD RAIL TRANSITION | |
| STA | 34+51 | TO | STA | 34+58 | RT | | ITEM 627.6 STEEL HIGHWAY GUARD TRANSITION BEAM | |
| STA | 34+58 | TO | STA | 34+83 | RT | | ITEM 627.8 STEEL BEAM HIGHWAY GUARD TANGENT END TREATMENT | |
| RAWSON STREET WESTBOUND | | | | | | | | |
| STA | 32+41 | TO | STA | 32+66 | LT | | ITEM 627.8 STEEL BEAM HIGHWAY GUARD TANGENT END TREATMENT | |
| STA | 32+66 | TO | STA | 33+41 | LT | | ITEM 622.11 STEEL W BEAM HIGHWAY GUARD (SINGLE FACED 9' STEEL POSTS) | |
| STA | 33+41 | TO | STA | 33+48 | LT | | ITEM 627.6 STEEL HIGHWAY GUARD TRANSITION BEAM | |
| STA | 33+48 | TO | STA | 33+75 | LT | | ITEM 628.2 BRIDGE RAIL TO HIGHWAY GUARD RAIL TRANSITION | |
| STA | 34+42 | TO | STA | 34+69 | LT | | ITEM 628.2 BRIDGE RAIL TO HIGHWAY GUARD RAIL TRANSITION | |
| STA | 34+69 | TO | STA | 34+77 | LT | | ITEM 627.6 STEEL HIGHWAY GUARD TRANSITION BEAM | |
| STA | 34+77 | TO | STA | 35+00 | LT | | ITEM 622.1 STEEL WBEAM HIGHWAY GUARD (SINGLE FACED/WOOD POSTS) | |
| STA | 35+00 | TO | STA | 35+25 | LT | | ITEM 627.8 STEEL BEAM HIGHWAY GUARD TANGENT END TREATMENT | |

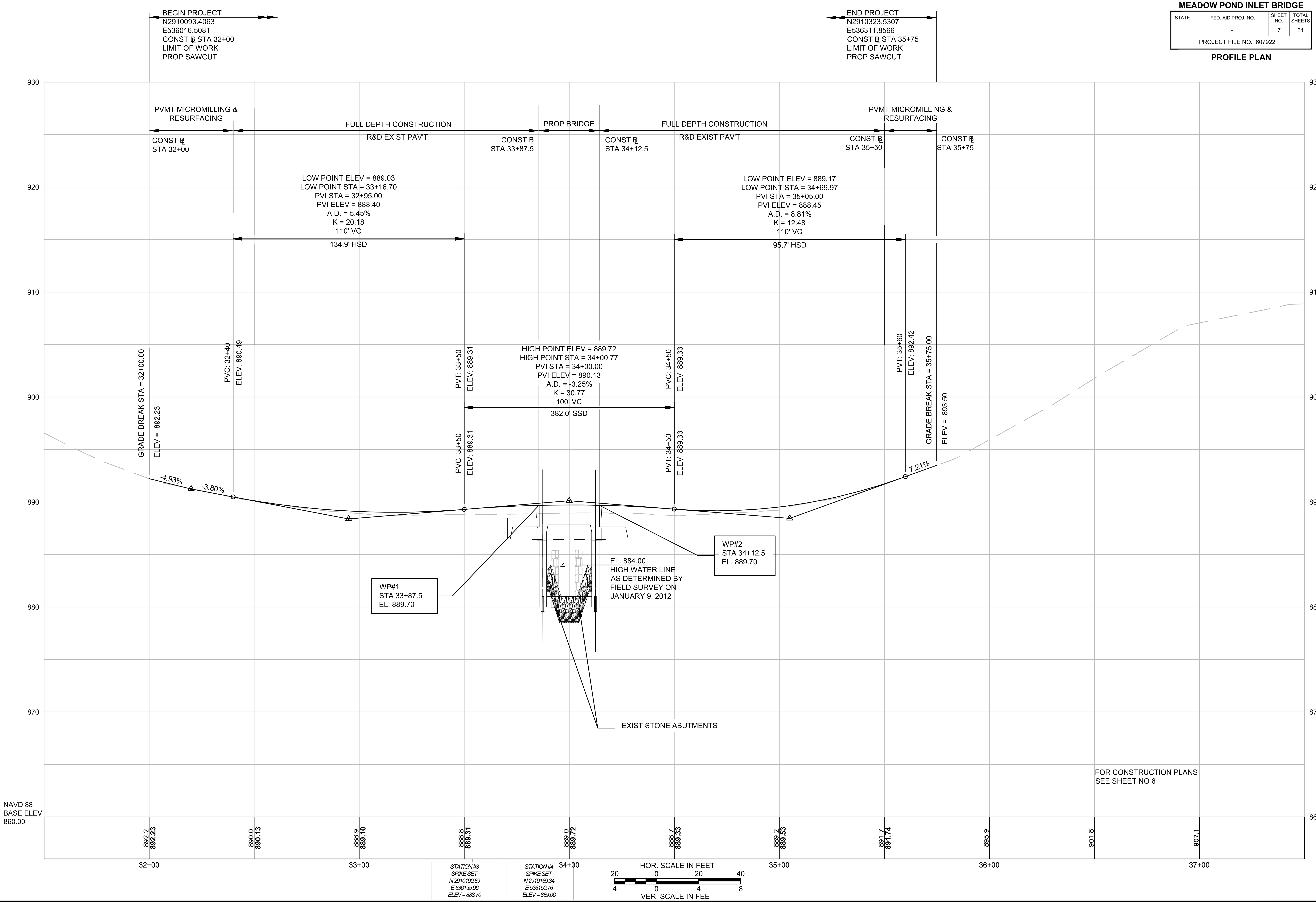
607922_HD6(CONST-01).DWG Plotted on 29-Dec-2016 4:46 PM

# LEICESTER
## RAWSON STREET OVER CEDAR MEADOW POND INLET BRIDGE

| STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|
| | - | 7 | 31 |
| PROJECT FILE NO. 607922 | | | |

**PROFILE PLAN**

## RAWSON STREET




607922_HD7(PROFILE-01).DWG Plotted on 27-Dec-2016 3:36 PM

LEICESTER
RAWSON STREET OVER CEDAR
MEADOW POND INLET BRIDGE

| STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|
| MA | - | 8 | 31 |
| PROJECT FILE NO. 607922 | | | |

CURB TIE & GRADING PLAN

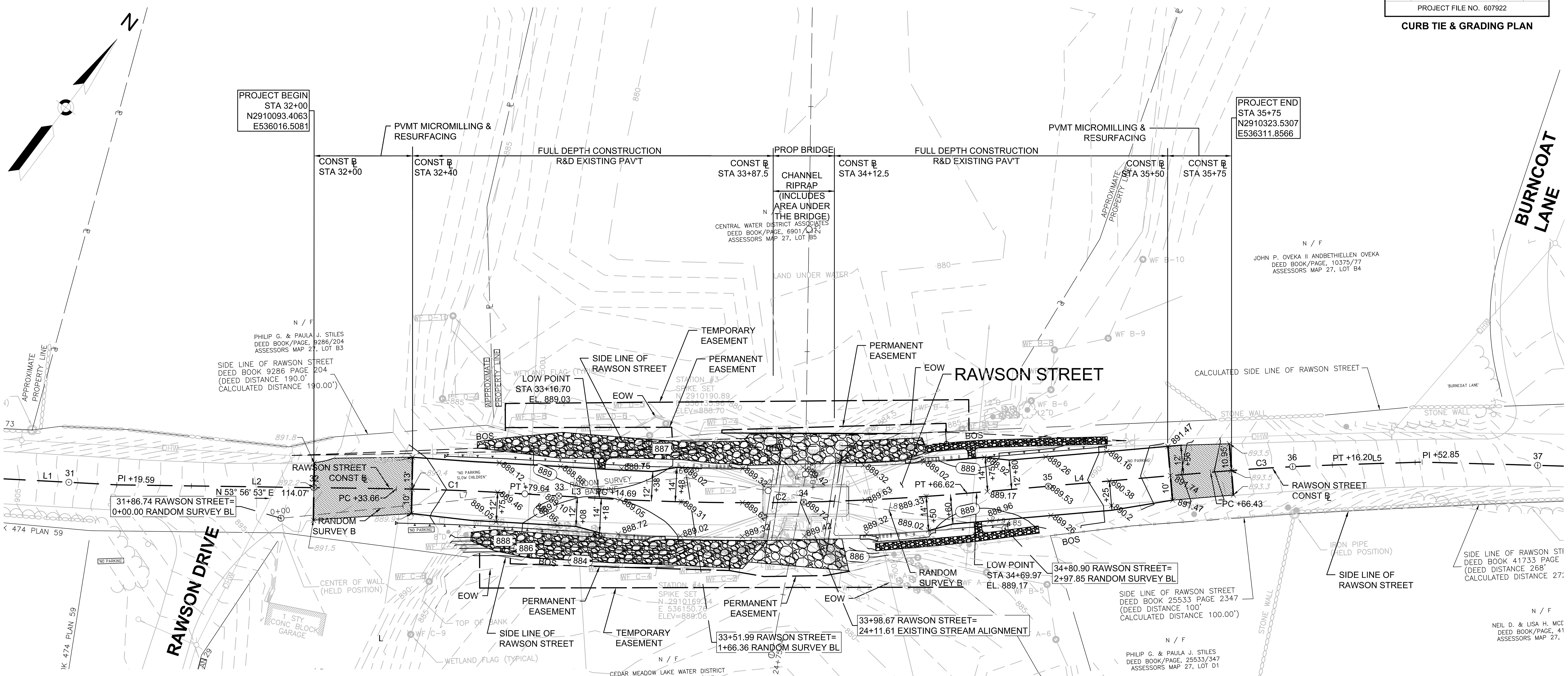
607922_HD8(GRAD-TIE-01).DWG Plotted on 29-Dec-2016 3:49 PM


HIGHWAY GUARD DETAILS
SEE SHEET NO. 6

DRAINAGE DETAILS
SEE SHEET NO. 6

CURB TIE DETAILS
SEE BELOW

TRAFFIC SIGNS & PVMT MARKINGS
SEE SHEET NO. 9


RAWSON STREET CONSTRUCTION BASELINE DATA

| NUMBER | STARTING STATION | NORTHING | EASTING | CURVE DATA | LINE DATA | ENDING STATION | NORTHING | EASTING |
|---|---|---|---|---|---|---|---|---|
| L1 | 30+26.42 | 2909994.246 | 535874.080 | | N56°11'40"E 93.17' | 31+19.59 | 2910046.085 | 535951.500 |
| L2 | 31+19.59 | 2910046.085 | 535951.500 | | N53°56'53"E 114.07' | 32+33.66 | 2910113.217 | 536043.723 |
| C1 | 32+33.66 | 2910113.217 | 536043.723 | R=1000.00' Δ=2°38'03" L=45.98' T=22.99' | | 32+79.64 | 2910139.411 | 536081.502 |
| L3 | 32+79.64 | 2910139.411 | 536081.502 | | N56°34'56"E 35.05' | 33+14.69 | 2910158.714 | 536110.758 |
| C2 | 33+14.69 | 2910158.714 | 536110.758 | R=1040.00' Δ=8°22'13" L=151.93' T=76.10' | | 34+66.62 | 2910251.337 | 536231.019 |
| L4 | 34+66.62 | 2910251.337 | 536231.019 | | N48°12'43"E 99.81' | 35+66.43 | 2910317.846 | 536305.437 |
| C3 | 35+66.43 | 2910317.846 | 536305.437 | R=930.00' Δ=3°03'59" L=49.77' T=24.89' | | 36+16.20 | 2910350.006 | 536343.419 |
| L5 | 36+16.20 | 2910350.006 | 536343.419 | | N51°16'43"E 36.65' | 36+52.85 | 2910372.930 | 536372.011 |
| L6 | 36+52.85 | 2910372.930 | 536372.011 | | N54°45'57"E 135.03' | 37+87.87 | 2910450.829 | 536482.299 |

RANDOM SURVEY BL CONSTRUCTION BASELINE DATA

| NUMBER | STARTING STATION | NORTHING | EASTING | CURVE DATA | LINE DATA | ENDING STATION | NORTHING | EASTING |
|---|---|---|---|---|---|---|---|---|
| L7 | 0+00.00 | 2910075.333 | 536013.260 | | N47°25'25"E 166.36' | 1+66.36 | 2910187.888 | 536135.764 |
| L8 | 1+66.36 | 2910187.888 | 536135.764 | | N62°12'57"E 131.49' | 2+97.85 | 2910249.182 | 536252.097 |

0 20 50 100
SCALE: 1" = 20'

HIGHWAY GUARD DETAILS
SEE SHEET NO. 6

DRAINAGE DETAILS
SEE SHEET NO. 6

CURB TIE DETAILS
SEE SHEET NO. 8

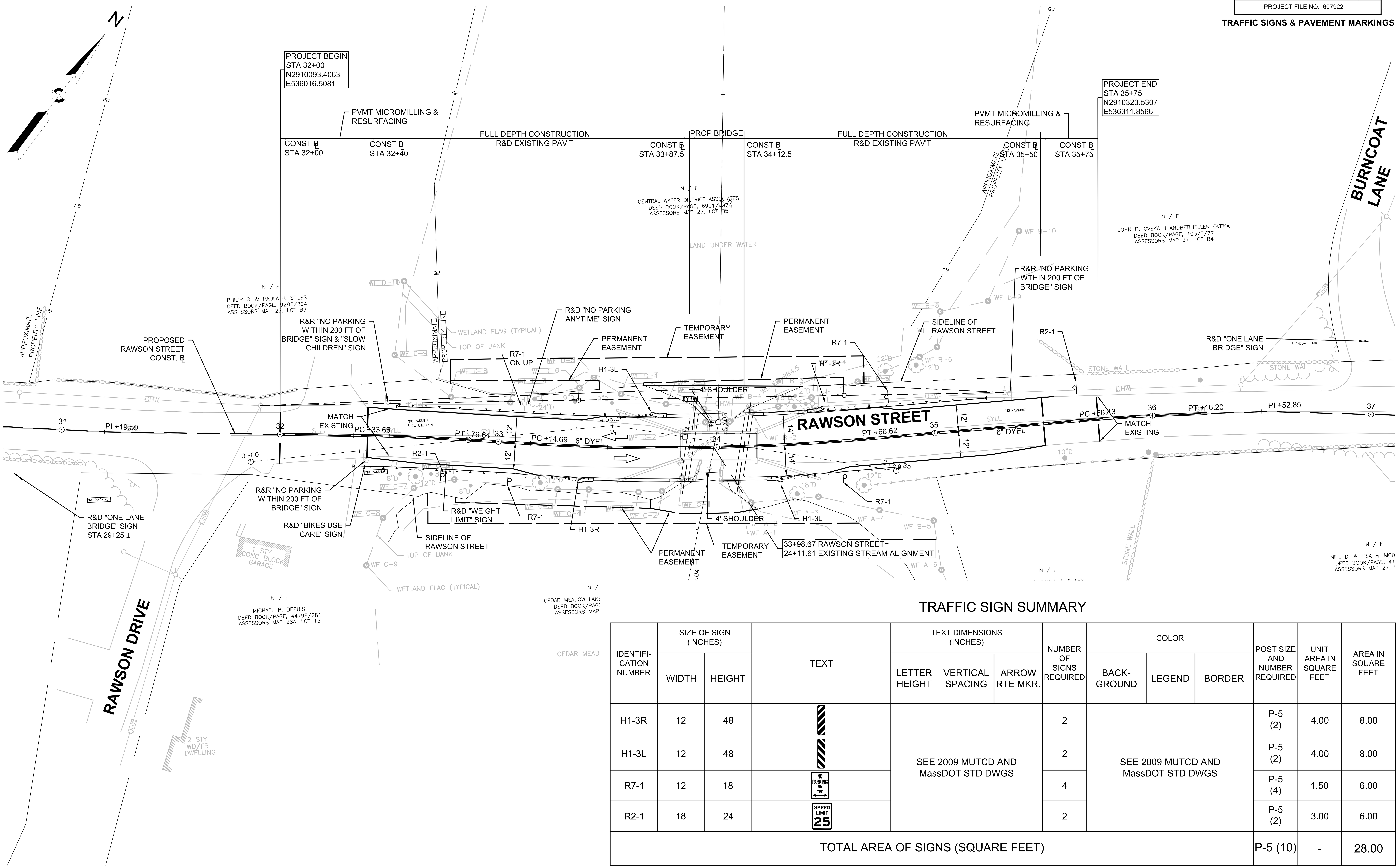
TRAFFIC SIGNS □ PVMT MAR□INGS
SEE BELOW

**LEICESTER**
**RAWSON STREET OVER CEDAR MEADOW POND INLET BRIDGE**

| STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|
| MA | - | 9 | 31 |
| PROJECT FILE NO. 607922 | | | |

**TRAFFIC SIGNS & PAVEMENT MARKINGS**

607922_HD9(TSPM-01).DWG Plotted on 28-Dec-2016 10:50 AM




## TRAFFIC SIGN SUMMARY

| IDENTIFICATION NUMBER | SIZE OF SIGN (INCHES) WIDTH | HEIGHT | TEXT | TEXT DIMENSIONS (INCHES) LETTER HEIGHT | VERTICAL SPACING | ARROW RTE MKR. | NUMBER OF SIGNS REQUIRED | COLOR BACK-GROUND | LEGEND | BORDER | POST SIZE AND NUMBER REQUIRED | UNIT AREA IN SQUARE FEET | AREA IN SQUARE FEET |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H1-3R | 12 | 48 | | SEE 2009 MUTCD AND MassDOT STD DWGS | | | 2 | SEE 2009 MUTCD AND MassDOT STD DWGS | | | P-5 (2) | 4.00 | 8.00 |
| H1-3L | 12 | 48 | | | | | 2 | | | | P-5 (2) | 4.00 | 8.00 |
| R7-1 | 12 | 18 | NO PARKING ANY TIME | | | | 4 | | | | P-5 (4) | 1.50 | 6.00 |
| R2-1 | 18 | 24 | SPEED LIMIT 25 | | | | 2 | | | | P-5 (2) | 3.00 | 6.00 |
| TOTAL AREA OF SIGNS (SQUARE FEET) | | | | | | | | | | | P-5 (10) | - | 28.00 |

0 20 50 100

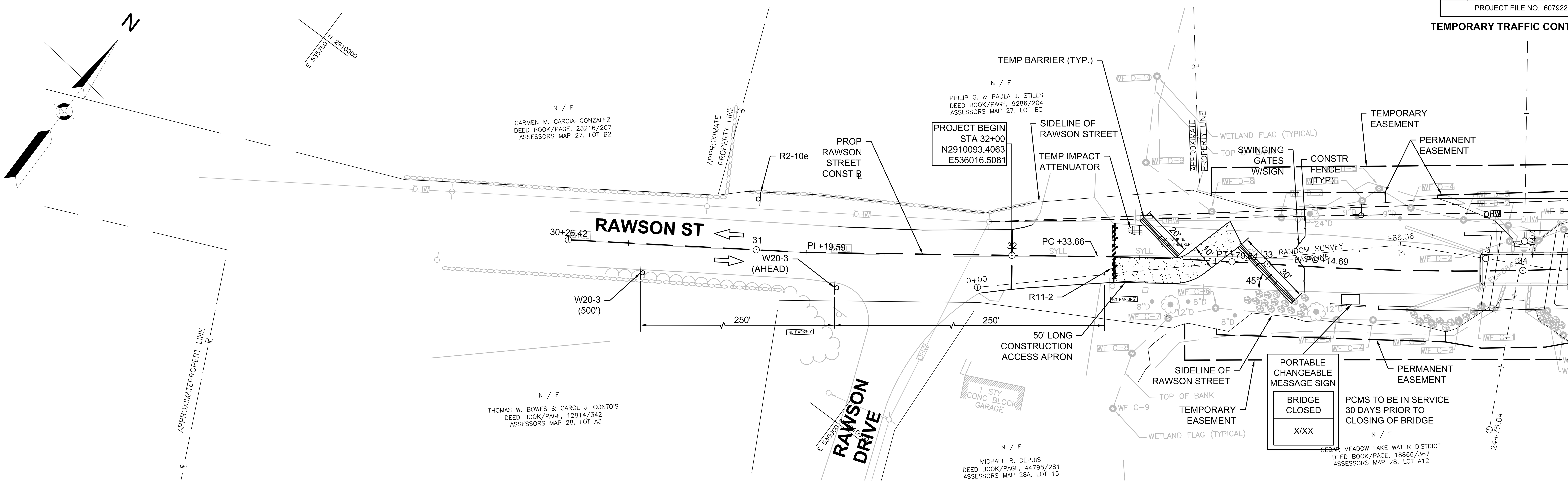
SCALE: 1" □20□

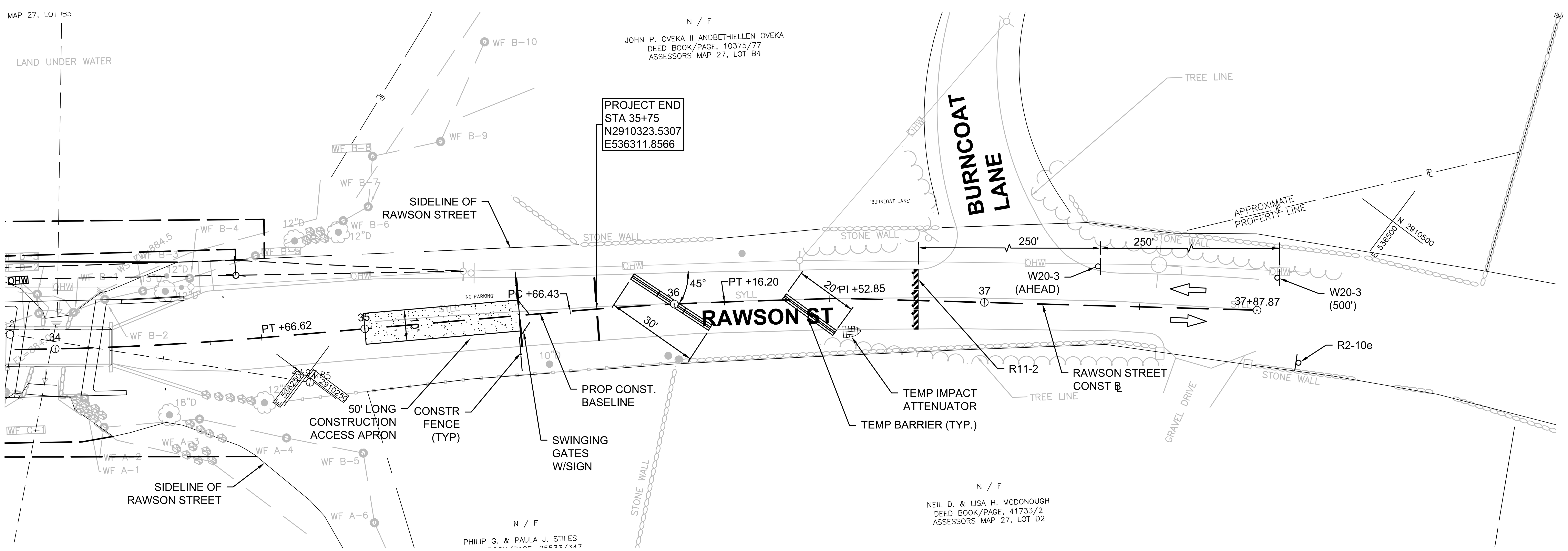
LEICESTER
RAWSON STREET OVER CEDAR
MEADOW POND INLET BRIDGE

| STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|
| MA | - | 10 | 31 |
| PROJECT FILE NO. 607922 | | | |

## TEMPORARY TRAFFIC CONTROL PLAN

Plotted on 27-Dec-2016 2:22 PM
607922_HD10(TTCP-01).DWG




NOTES:
1. CONTRACTOR TO ADJUST LOCATION OF TEMPORARY BARRIERS AS NEEDED TO ACCOMMODATE CONSTRUCTION VEHICLE TRAFFIC.
2. TEMPORARY BARRIER TO CONFORM TO MASH TEXT LEVEL 2.

0 20 50 100
SCALE: 1" = 20'

## TTCP LEGEND

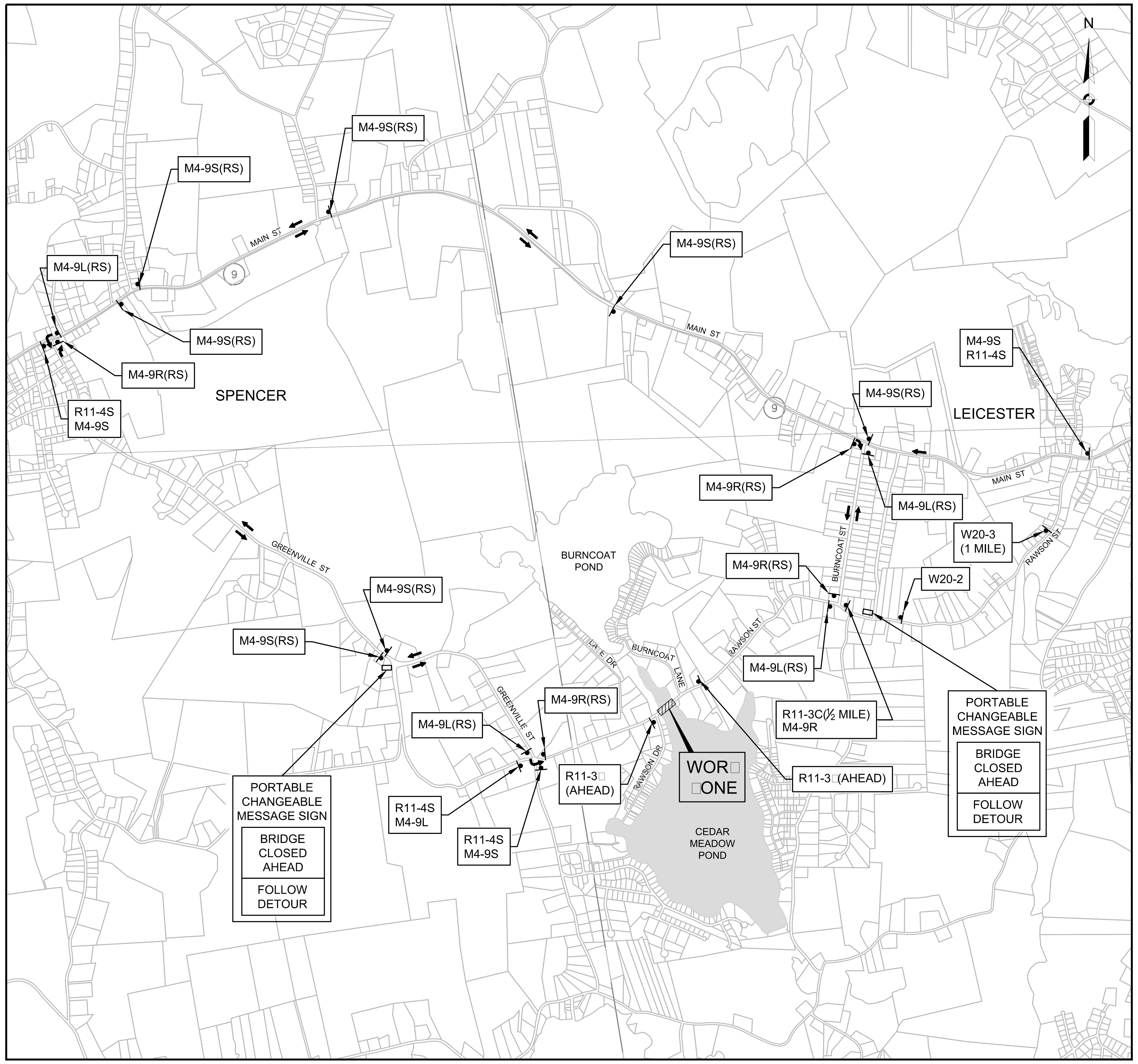
- PORTABLE BREAKAWAY BARRICADE TYPE III
- CONSTRUCTION SIGN
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- TEMPORARY CONCRETE BARRIER
- WORK ZONE
- REFLECTORIZED PLASTIC DRUM
- DIRECTION OF TRAFFIC
- IMPACT ATTENUATOR

LEICESTER
RAWSON STREET OVER CEDAR
MEADOW POND INLET BRIDGE

| STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|
| MA | N/A | 11 | 31 |
| PROJECT FILE NO. 607922 | | | |

TRAFFIC MANAGEMENT PLAN
TRAFFIC DETOUR

607922_HD11(TTCP-02).DWG 28-Dec-2016




## DETOUR ROUTE

**DETOUR LENGTH = 6.0 MILES**

1200 0 1200 2400
SCALE IN FEET

DETOUR ROUTE NOTES:

1. ALL WOR□ ON THIS PLAN SHALL BE PERFORMED PRIOR TO ROAD CLOSURE.
2. CONTRACTOR SHALL SUBMIT A DETAILED CONSTRUCTION SEQUENCING AND SCHEDULE PLAN AND SHALL OBTAIN WRITTEN APPROVAL PRIOR TO COMMENCING ANY WOR□.
3. SIGNS IN CONFLICT WITH ACTUAL ROADWAY CONDITIONS SHALL NOT BE VISIBLE TO TRAFFIC. TEMPORARY SIGNS SHALL BE COVERED OR REMOVED WHEN NOT IN USE.
4. SIGN LOCATIONS ARE A GUIDE AND MAY BE ADJUSTED AT THE DIRECTION OF THE ENGINEER.
5. ALL SIGNS SHALL BE INSTALLED WITHIN THE RIGHT OF WAY. THE SIGNS SHALL BE SET 1 FT OFF THE EDGE OF PAVEMENT OR 1 FT OFF THE BAC□ OF SIDEWAL□□IF PRESENT. LOCATIONS SHALL BE ADJUSTED TO AVOID OBSTACLES.
6. THE DETOUR ROUTE SHALL NOT TRAVERSE ROADS IN NEED OF REPAIR OR BRIDGES THAT ARE POSTED.

# TRAFFIC MANAGEMENT SIGN SUMMARY

| IDENTIFI-CATION NUMBER | SI□E OF SIGN (INCHES) WIDTH | HEIGHT | TEXT | TEXT DIMENSIONS (INCHES) LETTER HEIGHT | VERTICAL SPACING | ARROW RTE M□R. | NUMBER OF SIGNS REQUIRED | COLOR BAC□-GROUND | LEGEND | BORDER | POST SI□E AND NUMBER REQUIRED | UNIT AREA IN SQUARE FEET | AREA IN SQUARE FEET |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R11-4S | 54 | 30 | RAWSON ST. CLOSED AT CEDAR MEADOW POND | SEE 2009 MUTCD | | | 4 | WHITE | BLAC□ | BLAC□ | P-5 (8) | 11.25 | 45.00 |
| M4-9S | 30 | 24 | DETOUR ↑ | | | | 3 | ORANGE | | | P-5 (3) | 5.00 | 15.00 |
| M4-9S(RS) | 30 | 30 | RAWSON ST DETOUR ↑ | | | | 8 | ORANGE | | | P-5 (7) | 6.25 | 50.00 |
| M4-9R(RS) | 30 | 30 | RAWSON ST DETOUR → | | | | 4 | ORANGE | | | P-5 (3) | 6.25 | 25.00 |
| M4-9L(RS) | 30 | 30 | RAWSON ST DETOUR ← | | | | 4 | ORANGE | | | P-5 (3) | 6.25 | 25.00 |
| M4-9R | 30 | 24 | DETOUR → | | | | 1 | ORANGE | | | P-5 (1) | 5.00 | 5.00 |
| M4-9L | 30 | 24 | DETOUR ← | | | | 1 | ORANGE | | | P-5 (1) | 5.00 | 5.00 |
| R11-2 | 48 | 30 | ROAD CLOSED | | | | 2 | WHITE | | | MOUNT ON BARRICADE | 10.00 | 20.00 |
| R11-3□ | 60 | 30 | ROAD CLOSED AHEAD LOCAL TRAFFIC ONLY | | | | 2 | WHITE | | | P-5 (4) | 12.50 | 25.00 |
| R11-3c | 60 | 30 | ROAD CLOSED 1/2 MILE AHEAD USE DETOUR | | | | 1 | WHITE | | | P-5 (2) | 12.50 | 12.50 |
| W20-2 | 36 | 36 | DETOUR AHEAD | | | | 1 | ORANGE | | | P-5 (1) | 9.00 | 9.00 |
| W20-3 | 36 | 36 | ROAD CLOSED 1 MILE | | | | 1 | ORANGE | | | P-5 (1) | 9.00 | 9.00 |
| W20-3 | 36 | 36 | ROAD CLOSED 500 FT | | | | 2 | ORANGE | | | P-5 (2) | 9.00 | 18.00 |
| W20-3 | 36 | 36 | ROAD CLOSED AHEAD | | | | 2 | ORANGE | | | P-5 (2) | 9.00 | 18.00 |
| TOTAL AREA OF SIGNS (SQUARE FEET) | | | | | | | | | | | (40) | | 281.50 |

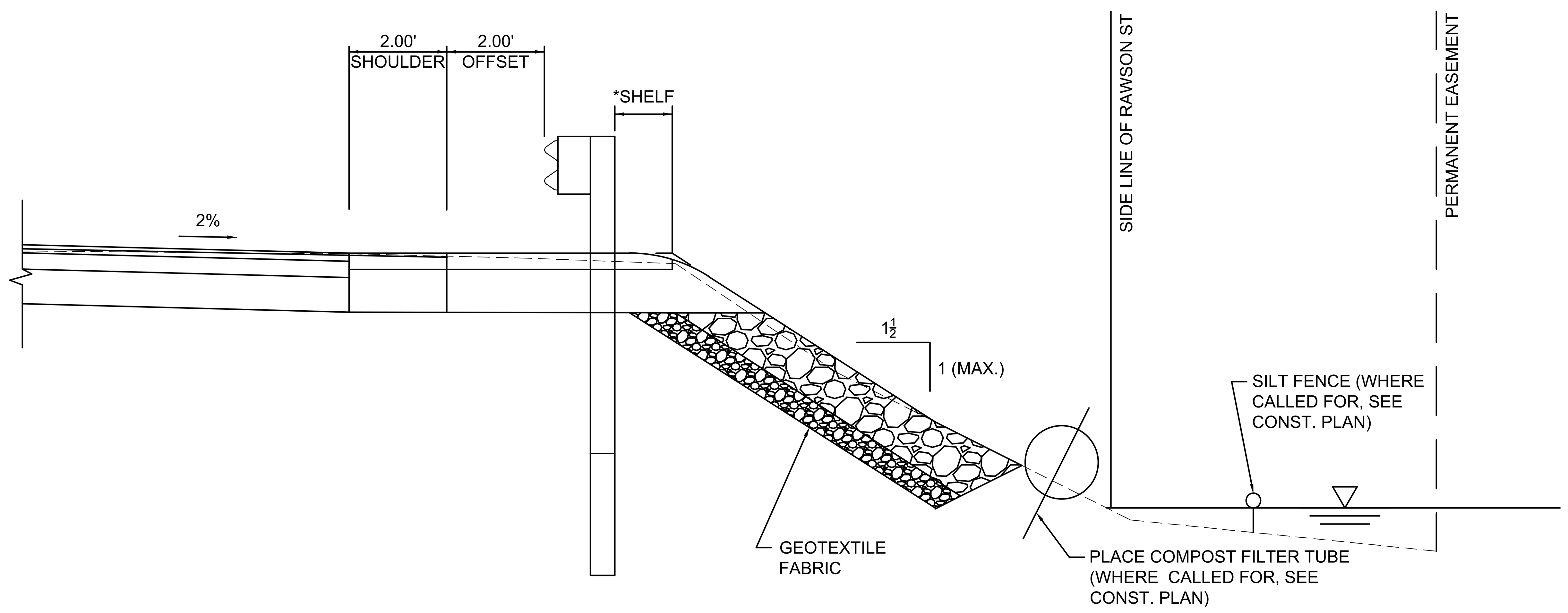
SIGN SUMMARY NOTES:

1. ALL SIGN LEGENDS□BORDERS AND MOUNTING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MUTCD AND 1990 MassDOT STANDARD DRAWINGS FOR SIGN SUPPORTS.
2. SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY MUST PASS THE CRITERIA SET FORTH IN NCHRP REPORT 350□"RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES".
3. ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD SIGN SUPPORTS.
4. ANY SIGN COMPONENTS DAMAGED BY THE CONTRACTOR'S OPERATIONS WILL BE REPLACED BY THE CONTRACTOR AT THEIR OWN EXPENSE.

**LEICESTER**
**RAWSON STREET OVER CEDAR MEADOW POND INLET BRIDGE**

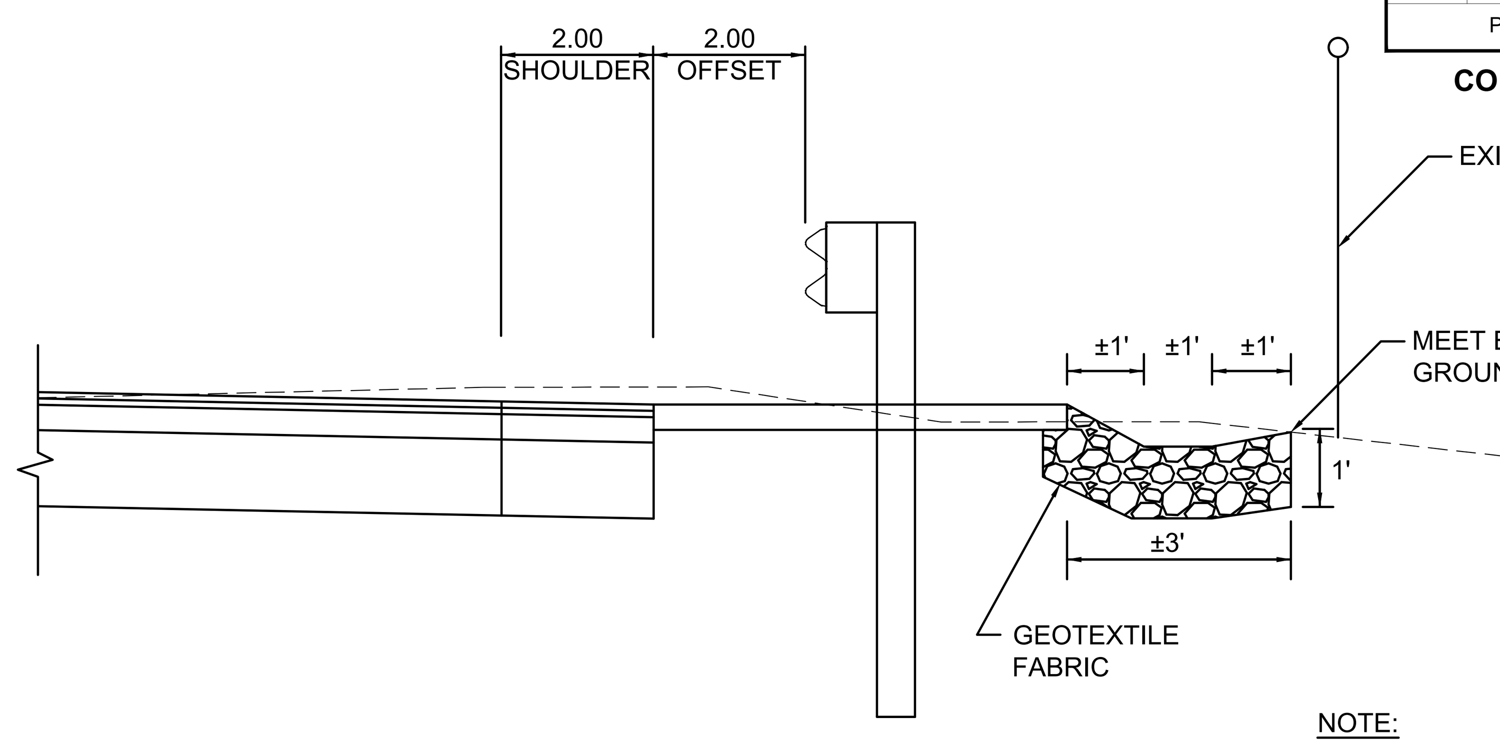
| STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|
| MA | N/A | 12 | 31 |
| PROJECT FILE NO. 607922 | | | |

**CONSTRUCTION DETAILS**



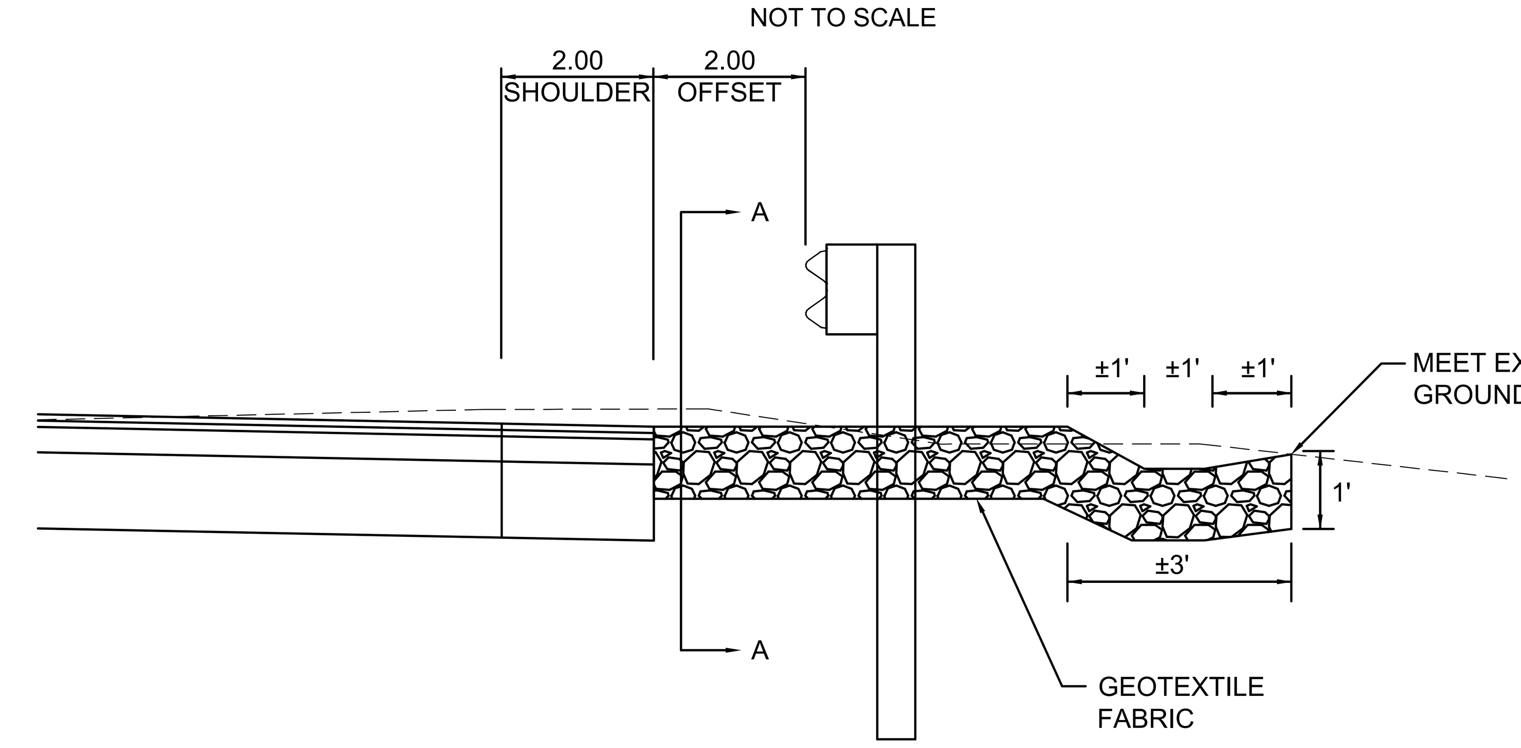

*NOTE:
USE WHERE THERE IS LESS THAN A 2' SHELF BEHIND THE GR POST

9' GUARDRAIL POST
SCALE: 1" = 2'

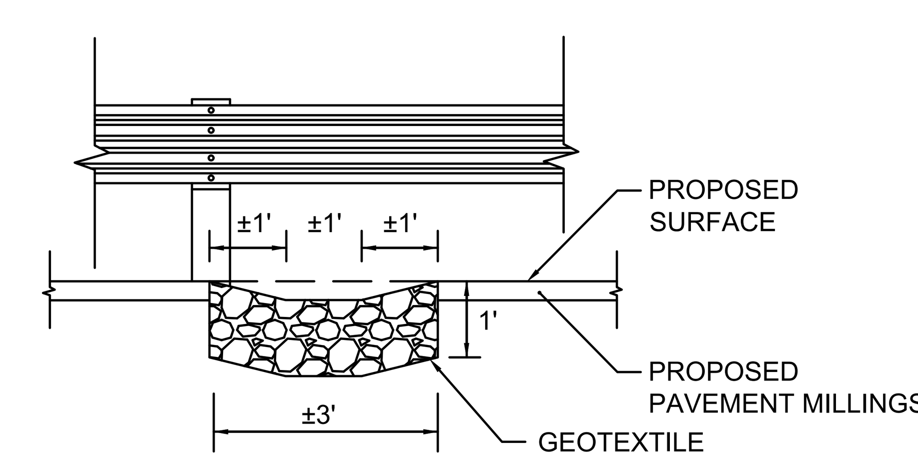



NOTE:
CRUSHED STONE FOR PROPOSED SEDIMENT TRAP TO BE GRADED AS A CONCAVE FEATURE SO AS TO HOLD A VOLUME OF SHEET FLOW FROM THE ROADWAY

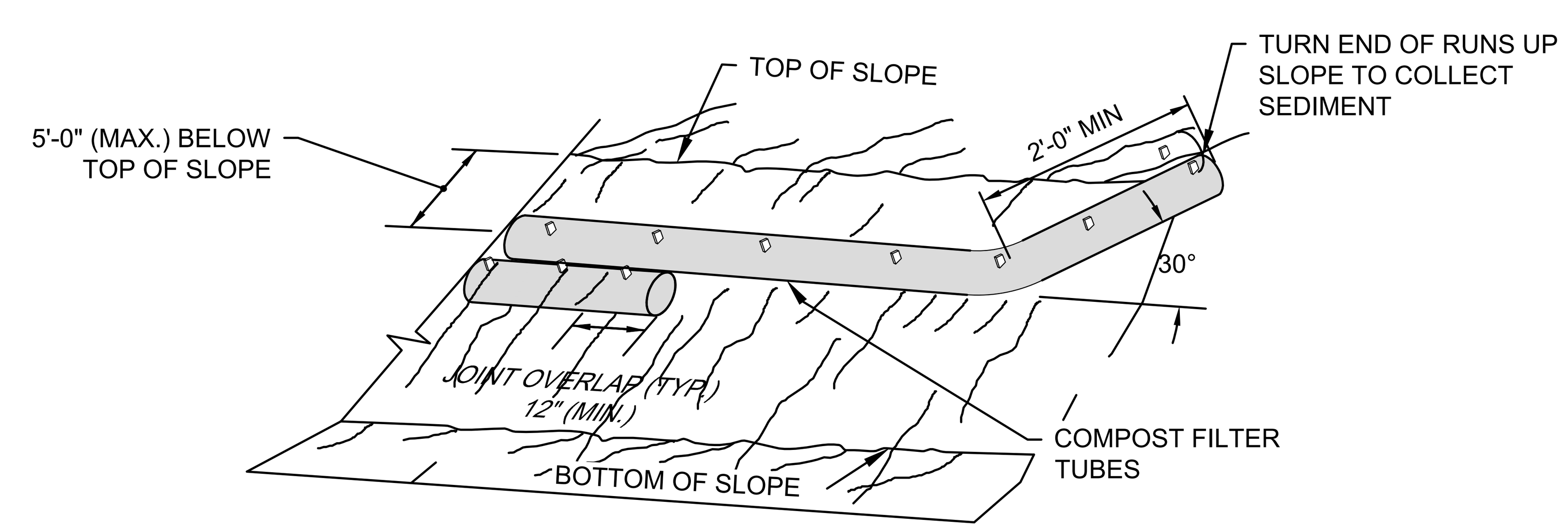
CRUSHED STONE SEDIMENT TRAP
NOT TO SCALE



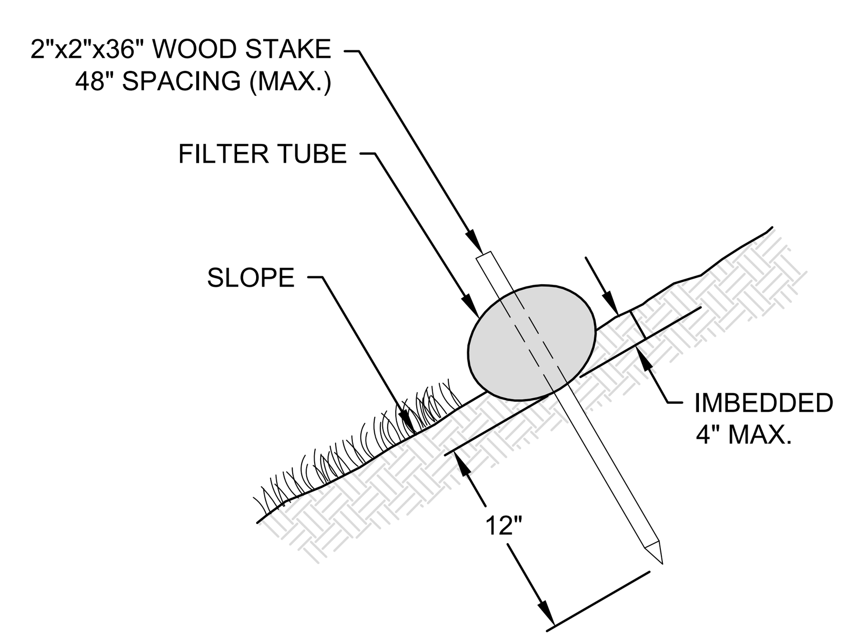

CRUSHED STONE SEDIMENT TRAP AT LOW POINT (STA 33+16.7 & STA 34+70.0)
NOT TO SCALE




SECTION A-A
NOT TO SCALE




PERSPECTIVE VIEW




SECTION VIEW

COMPOST FILTER TUBE DETAIL
NOT TO SCALE

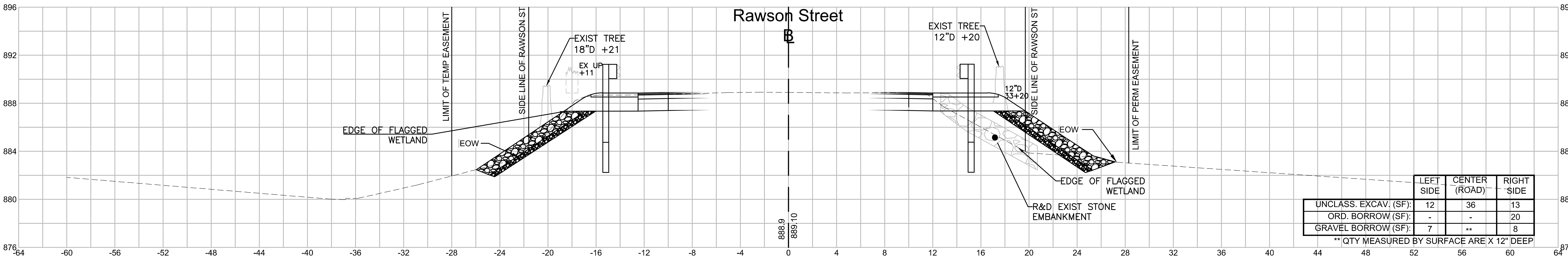
607922_HD12(CONST-DETLS).DWG    Plotted on 30-Dec-2016 12:52 PM

LEICESTER
RAWSON STREET OVER CEDAR
MEADOW POND INLET BRIDGE

| STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|
| MA | N/A | 27 | 31 |
| PROJECT FILE NO. 607922 | | | |

CROSS SECTIONS
SHEET 1 OF 5

33+00




| | LEFT SIDE | CENTER (ROAD) | RIGHT SIDE |
|---|---|---|---|
| UNCLASS. EXCAV. (SF): | 12 | 36 | 13 |
| ORD. BORROW (SF): | - | - | 20 |
| GRAVEL BORROW (SF): | 7 | ** | 8 |

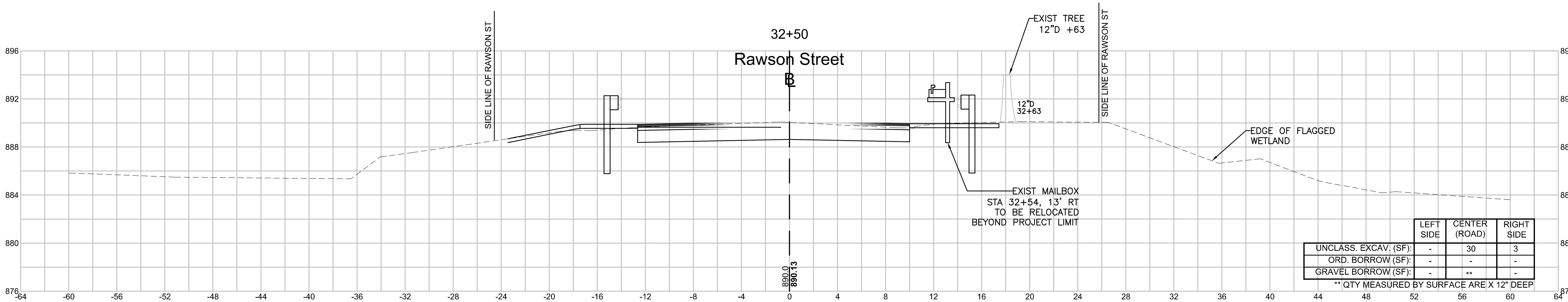
** QTY MEASURED BY SURFACE ARE X 12" DEEP

32+75


| | LEFT SIDE | CENTER (ROAD) | RIGHT SIDE |
|---|---|---|---|
| UNCLASS. EXCAV. (SF): | 11 | 37 | 14 |
| ORD. BORROW (SF): | - | - | - |
| GRAVEL BORROW (SF): | 8 | ** | 8 |

** QTY MEASURED BY SURFACE ARE X 12" DEEP

32+50




| | LEFT SIDE | CENTER (ROAD) | RIGHT SIDE |
|---|---|---|---|
| UNCLASS. EXCAV. (SF): | - | 30 | 3 |
| ORD. BORROW (SF): | - | - | - |
| GRAVEL BORROW (SF): | - | ** | - |

** QTY MEASURED BY SURFACE ARE X 12" DEEP

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

Plotted on 27-Dec-2016 4:26 PM
607922_HD27-31(XSECS-01-05).DWG

LEICESTER
RAWSON STREET OVER CEDAR
MEADOW POND INLET BRIDGE

| STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|
| MA | N/A | 28 | 31 |
| PROJECT FILE NO. 607922 | | | |

**CROSS SECTIONS**
**SHEET 2 OF 5**

Plotted on 30-Dec-2016 12:58 PM
607922_HD27-31(XSECS-01-05).DWG

## 33+75


| | LEFT SIDE | CENTER (ROAD) | RIGHT SIDE |
|---|---|---|---|
| UNCLASS. EXCAV. (SF): | 11 | 17 | 10 |
| ORD. BORROW (SF): | - | - | - |
| GRAVEL BORROW (SF): | - | ** | - |

** QTY MEASURED BY SURFACE ARE X 12" DEEP

## 33+50


| | LEFT SIDE | CENTER (ROAD) | RIGHT SIDE |
|---|---|---|---|
| UNCLASS. EXCAV. (SF): | 11 | 30 | 5 |
| ORD. BORROW (SF): | - | - | 3 |
| GRAVEL BORROW (SF): | 8 | ** | - |

** QTY MEASURED BY SURFACE ARE X 12" DEEP

## 33+25


| | LEFT SIDE | CENTER (ROAD) | RIGHT SIDE |
|---|---|---|---|
| UNCLASS. EXCAV. (SF): | 14 | 38 | 3 |
| ORD. BORROW (SF): | - | - | 5 |
| GRAVEL BORROW (SF): | 9 | ** | 7 |

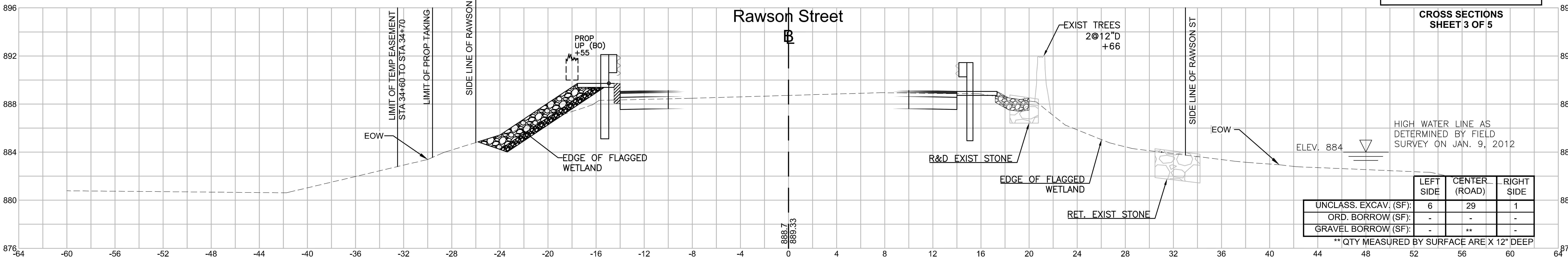
** QTY MEASURED BY SURFACE ARE X 12" DEEP

LEICESTER
RAWSON STREET OVER CEDAR
MEADOW POND INLET BRIDGE

| STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|
| MA | N/A | 29 | 31 |
| PROJECT FILE NO. 607922 | | | |

**CROSS SECTIONS**
**SHEET 3 OF 5**

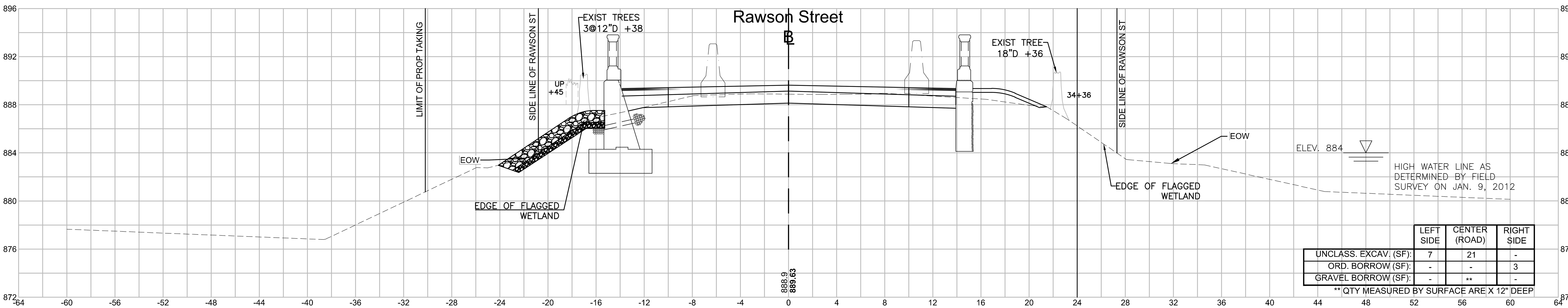
34+50
Rawson Street




| | LEFT SIDE | CENTER (ROAD) | RIGHT SIDE |
|---|---|---|---|
| UNCLASS. EXCAV. (SF): | 6 | 29 | 1 |
| ORD. BORROW (SF): | - | - | - |
| GRAVEL BORROW (SF): | - | ** | - |

** QTY MEASURED BY SURFACE ARE X 12" DEEP

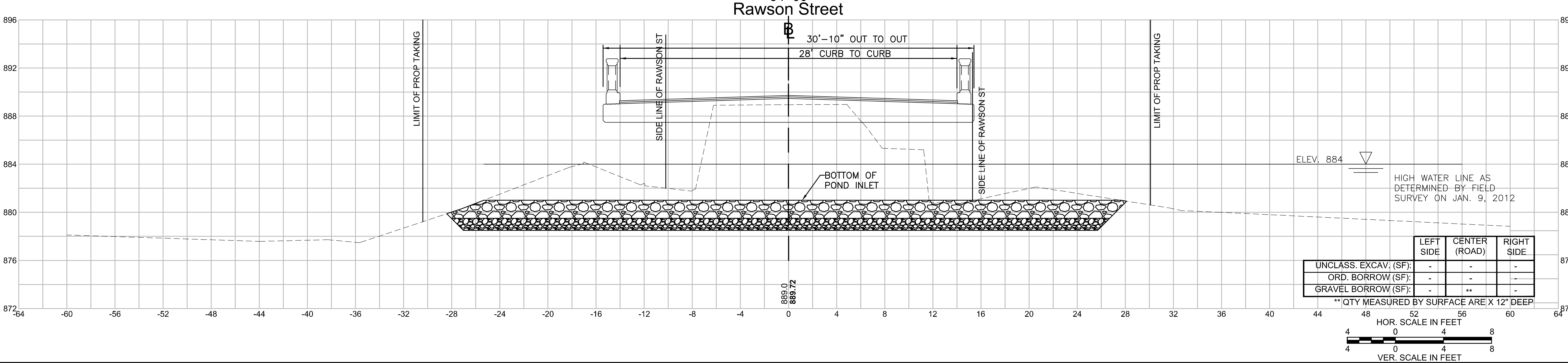
34+25
Rawson Street




| | LEFT SIDE | CENTER (ROAD) | RIGHT SIDE |
|---|---|---|---|
| UNCLASS. EXCAV. (SF): | 7 | 21 | - |
| ORD. BORROW (SF): | - | - | 3 |
| GRAVEL BORROW (SF): | - | ** | - |

** QTY MEASURED BY SURFACE ARE X 12" DEEP

34+00
Rawson Street




| | LEFT SIDE | CENTER (ROAD) | RIGHT SIDE |
|---|---|---|---|
| UNCLASS. EXCAV. (SF): | - | - | - |
| ORD. BORROW (SF): | - | - | - |
| GRAVEL BORROW (SF): | - | ** | - |

** QTY MEASURED BY SURFACE ARE X 12" DEEP

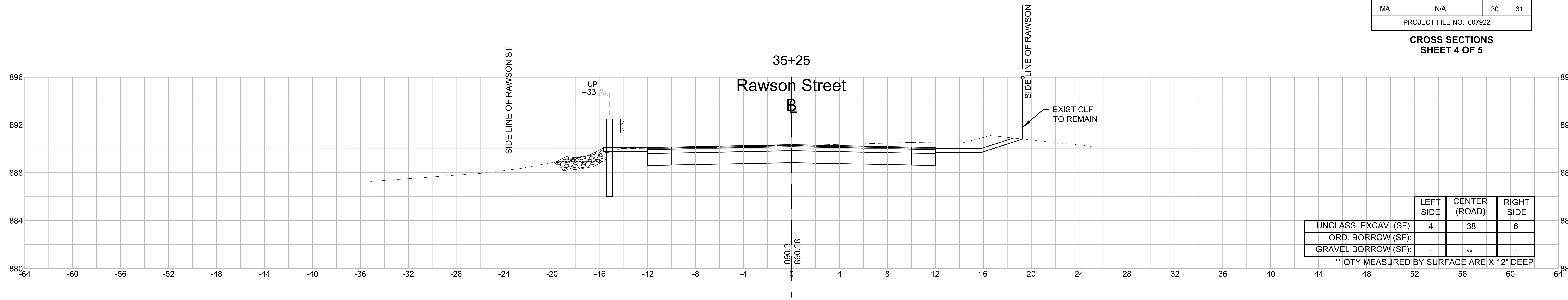
607922_HD27-31(XSECS-01-05).DWG
Plotted on 27-Dec-2016 4:32 PM

**LEICESTER**
**RAWSON STREET OVER CEDAR MEADOW POND INLET BRIDGE**

| STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|
| MA | N/A | 30 | 31 |
| PROJECT FILE NO. 607922 | | | |

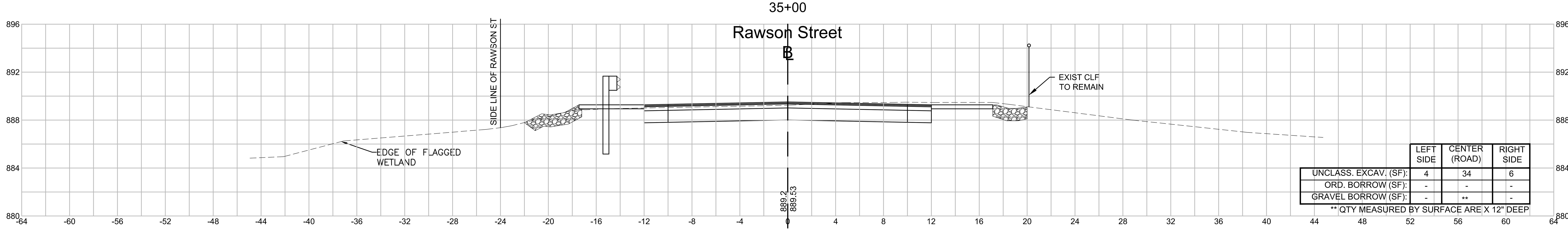
**CROSS SECTIONS**
**SHEET 4 OF 5**





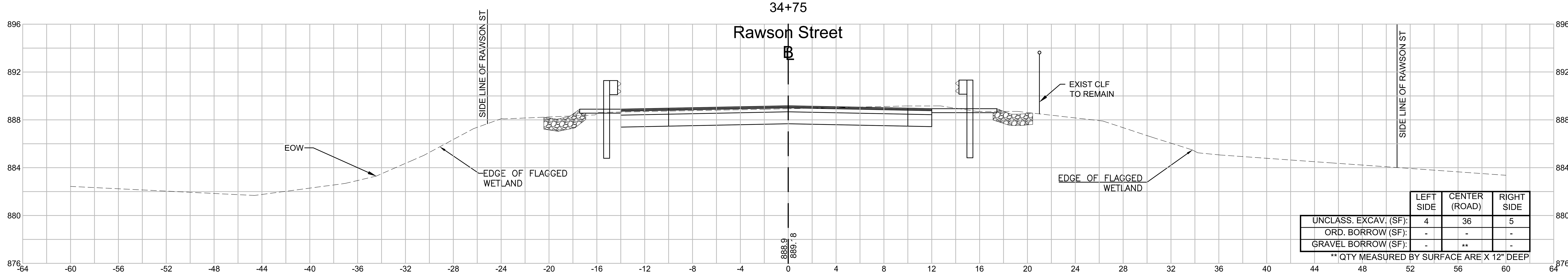

| | LEFT SIDE | CENTER (ROAD) | RIGHT SIDE |
|---|---|---|---|
| UNCLASS. EXCAV. (SF): | 4 | 38 | 6 |
| ORD. BORROW (SF): | - | - | - |
| GRAVEL BORROW (SF): | - | ** | - |

** QTY MEASURED BY SURFACE ARE X 12" DEEP




| | LEFT SIDE | CENTER (ROAD) | RIGHT SIDE |
|---|---|---|---|
| UNCLASS. EXCAV. (SF): | 4 | 34 | 6 |
| ORD. BORROW (SF): | - | - | - |
| GRAVEL BORROW (SF): | - | ** | - |

** QTY MEASURED BY SURFACE ARE X 12" DEEP




| | LEFT SIDE | CENTER (ROAD) | RIGHT SIDE |
|---|---|---|---|
| UNCLASS. EXCAV. (SF): | 4 | 36 | 5 |
| ORD. BORROW (SF): | - | - | - |
| GRAVEL BORROW (SF): | - | ** | - |

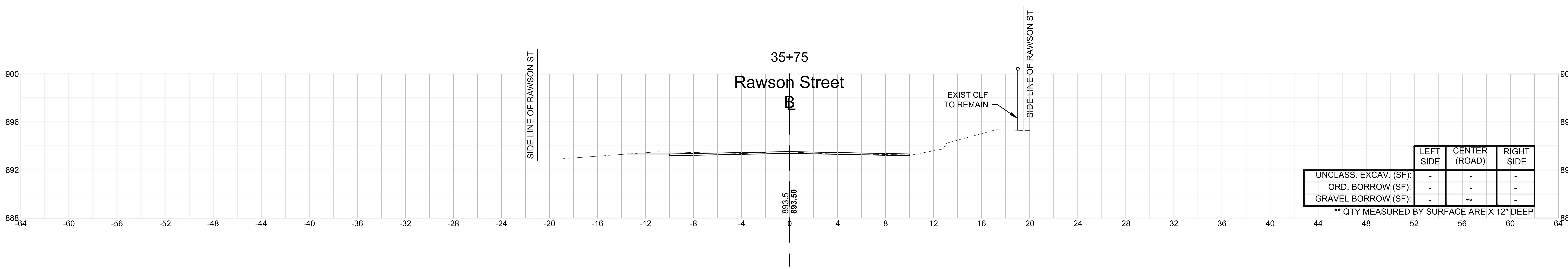
** QTY MEASURED BY SURFACE ARE X 12" DEEP

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

**LEICESTER**
**RAWSON STREET OVER CEDAR MEADOW POND INLET BRIDGE**

| STATE | FED. AID PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|
| MA | N/A | 31 | 31 |
| PROJECT FILE NO. 607922 | | | |

**CROSS SECTIONS**
**SHEET 5 OF 5**




| | LEFT SIDE | CENTER (ROAD) | RIGHT SIDE |
|---|---|---|---|
| UNCLASS. EXCAV. (SF): | - | - | - |
| ORD. BORROW (SF): | - | - | - |
| GRAVEL BORROW (SF): | - | ** | - |

** QTY MEASURED BY SURFACE ARE X 12" DEEP


| | LEFT SIDE | CENTER (ROAD) | RIGHT SIDE |
|---|---|---|---|
| UNCLASS. EXCAV. (SF): | - | 33 | - |
| ORD. BORROW (SF): | - | - | - |
| GRAVEL BORROW (SF): | - | ** | - |

** QTY MEASURED BY SURFACE ARE X 12" DEEP

HOR. SCALE IN FEET
4 0 4 8
4 0 4 8
VER. SCALE IN FEET

Plotted on 21-Dec-2016 11:33 AM
607922_HD27-31(XSECS-01-05).DWG