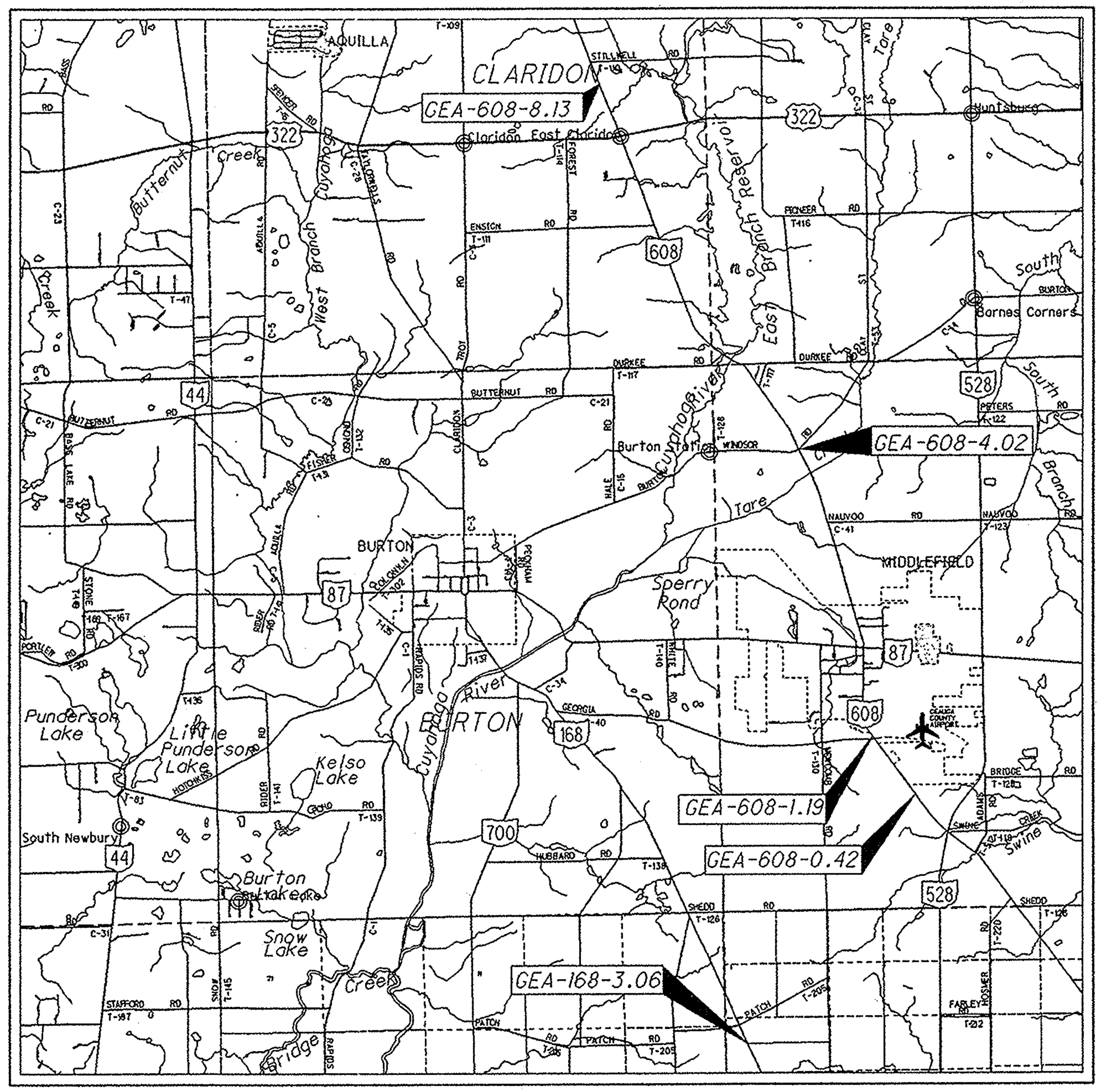


LOCATION MAP
LATITUDE: 41°27'43"   LONGITUDE: 81°4'23"
(MIDDLEFIELD)
SCALE IN MILES
0 1 2 3 4
N

PORTION TO BE IMPROVED
INTERSTATE HIGHWAY
STATE & FEDERAL ROUTES
COUNTY & TOWNSHIP ROADS
OTHER ROADS

# STATE OF OHIO
# DEPARTMENT OF TRANSPORTATION

# GEA-168-3.06 AND VARIOUS

## CLARIDON TOWNSHIP
## MIDDLEFIELD TOWNSHIP
## PARKMAN TOWNSHIP
## GEAUGA COUNTY

INDEX OF SHEETS:



PROJECT DESCRIPTION

THE PROJECT INCLUDES THE REPLACEMENT OF FOUR INDIVIDUAL CULVERT PIPES AND HEADWALLS WITH PAVEMENT RESTORATION AND THE INSTALLATION OF APPROXIMATELY 460' OF STORM SEWER PIPE AND INLET STRUCTURES.

| | |
|---|---|
| PROJECT EARTH DISTURBED AREA: | N/A |
| ESTIMATED CONTRACTOR EARTH DISTRUBED AREA: | N/A |
| NOTICE OF INTENT EARTH DISTURBED AREA: | N/A |

2008 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY EXCEPT AS NOTED ON SHEET 9, AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

UNDERGROUND UTILITIES
CONTACT BOTH SERVICES
CALL TWO WORKING DAYS
**BEFORE YOU DIG**
CALL
1-800-362-2764
(TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY
OIL & GAS PRODUCERS PROTECTIVE SERVICE CALL: 1-800-925-0988

PLAN PREPARED BY:
OHIO DEPARTMENT OF TRANSPORTATION
DISTRICT 12 - PRODUCTION

ENGINEERS SEAL:
STATE OF OHIO
MICHAEL KING MORIARTY
E-67496
REGISTERED PROFESSIONAL ENGINEER
MICHAEL KING MORIARTY
SIGNED:
DATE: 10-21-08

STANDARD CONSTRUCTION DRAWINGS

| | | | | SUPPLEMENTAL SPECIFICATIONS |
|---|---|---|---|---|
| BP-3.1 | 10/19/07 | GR-5.2 | 1/16/04 | 800-2008 10/17/08 |
| BP-4.1 | 7/16/04 | GR-5.3 | 1/16/04 | |
| | | | | |
| CB-1.2 | 7/15/05 | HW-1.1 | 1/21/05 | 832 4/25/06 |
| | | HW-2.1 | 4/21/06 | |
| | | HW-2.2 | 4/21/06 | |
| DM-1.1 | 4/21/06 | | | |
| DM-1.4 | 4/21/06 | RM-4.2 | 10/19/07 | |
| DM-4.3 | 7/19/02 | | | |
| DM-4.4 | 7/19/02 | MT-97.10 | 9/05/06 | SPECIAL PROVISIONS |
| | | MT-105.10 | 10/18/02 | |
| GR-1.1 | 7/16/04 | MT-105.11 | 10/18/02 | |
| GR-2.1 | 1/16/04 | | | WATERWAY PERMIT-404 10/27/08 |
| GR-2.4 | 4/18/03 | TC-73.10 | 1/19/01 | |
| | | | | |
| GR-4.2 | 1/19/07 | | | |

APPROVED ______ PE
DATE 10/21/08 DISTRICT DEPUTY DIRECTOR

APPROVED ______
DATE 12-1-08 DIRECTOR, DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT NO.
NON-FEDERAL

PID NO.
83511

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT
NONE

GEA-168-3.06 AND VARIOUS



GEA - SR-168-3.06/VARIOUS
090099 PID - 83511
Dist 12 2/4/2009
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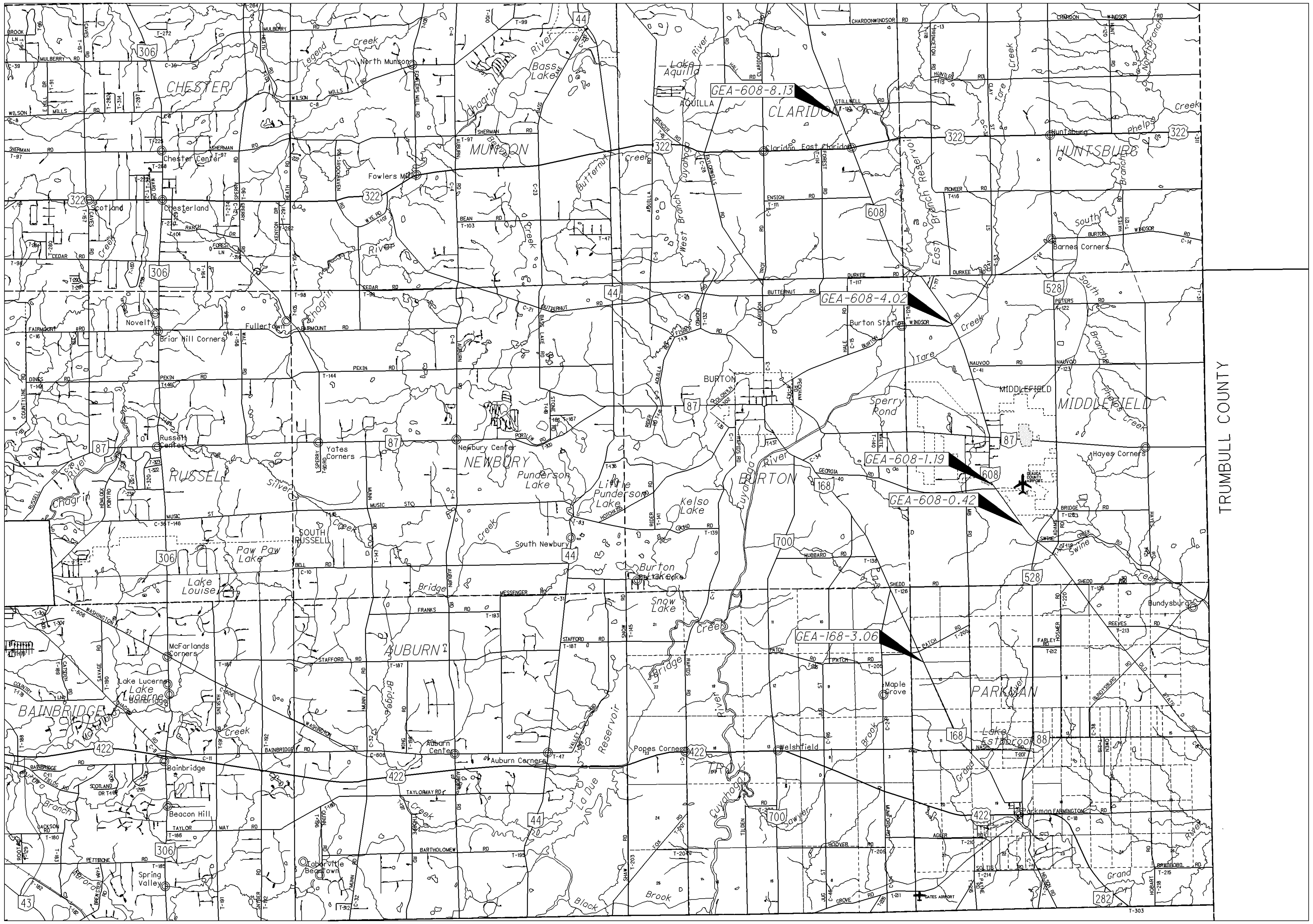


| DESIGN DESIGNATION | GEA-168-3.06 | GEA-608-0.42, 1.19 | GEA-608-4.02 | GEA-608-8.13 |
|---|---|---|---|---|
| CURRENT ADT (2009) | 2730 | 8930 | 6810 | 3100 |
| DESIGN YEAR ADT (2029) | 4100 | 11300 | 7600 | 4700 |
| DESIGN HOURLY VOLUME (2029) | 451 | 1130 | 1040 | 517 |
| DIRECTIONAL DISTRIBUTION | 55% | 55% | 55% | 55% |
| TRUCKS (24 HOUR B&C) | 5% | 6% | 4% | 4% |
| DESIGN SPEED | 55 MPH | 55 MPH | 55 MPH | 55 MPH |
| LEGAL SPEED | 55 MPH | 50 MPH | 50 MPH | 50 MPH |

DESIGN FUNCTIONAL CLASSIFICATION:
RURAL MAJOR COLLECTOR

CALCULATED JTW
CHECKED

# LOCATION PLAN

## GEA-168-3.06 AND VARIOUS



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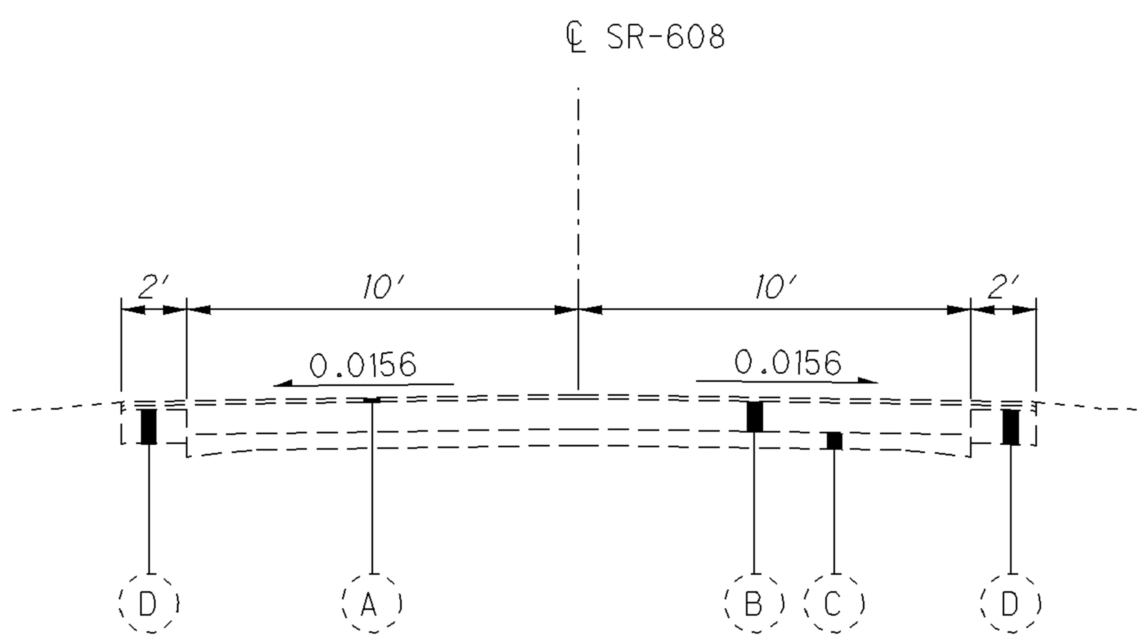
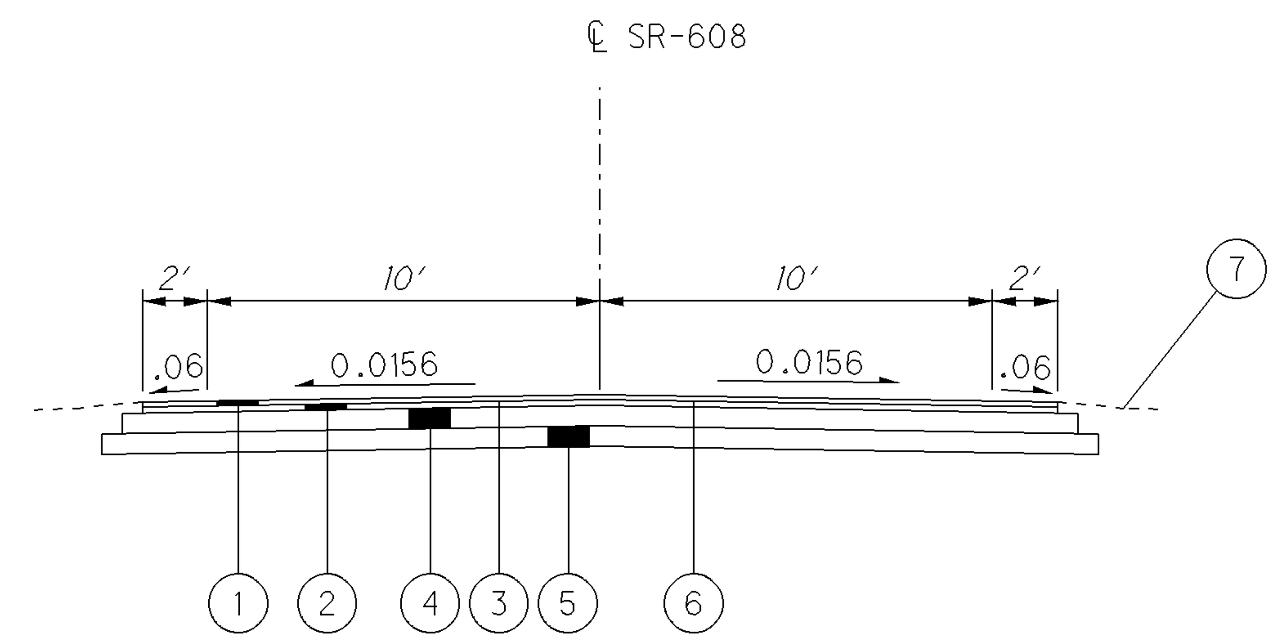
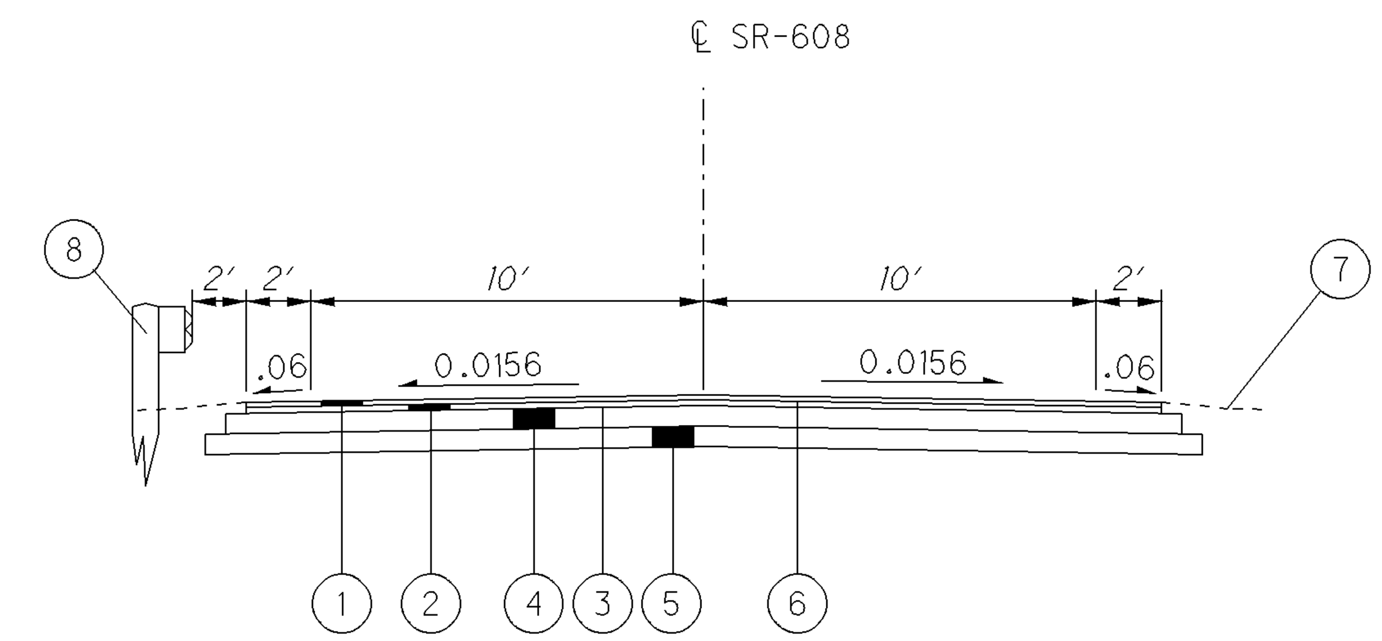


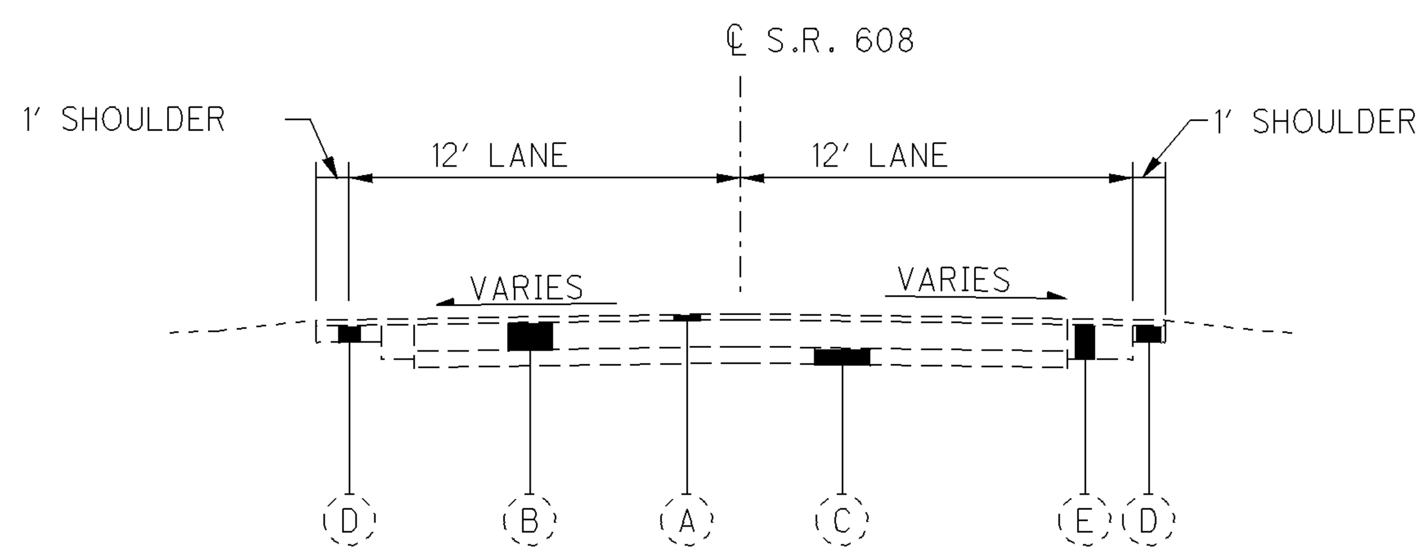

**EXISTING SECTION**
STA. 21+00 TO 64+00, SR 608



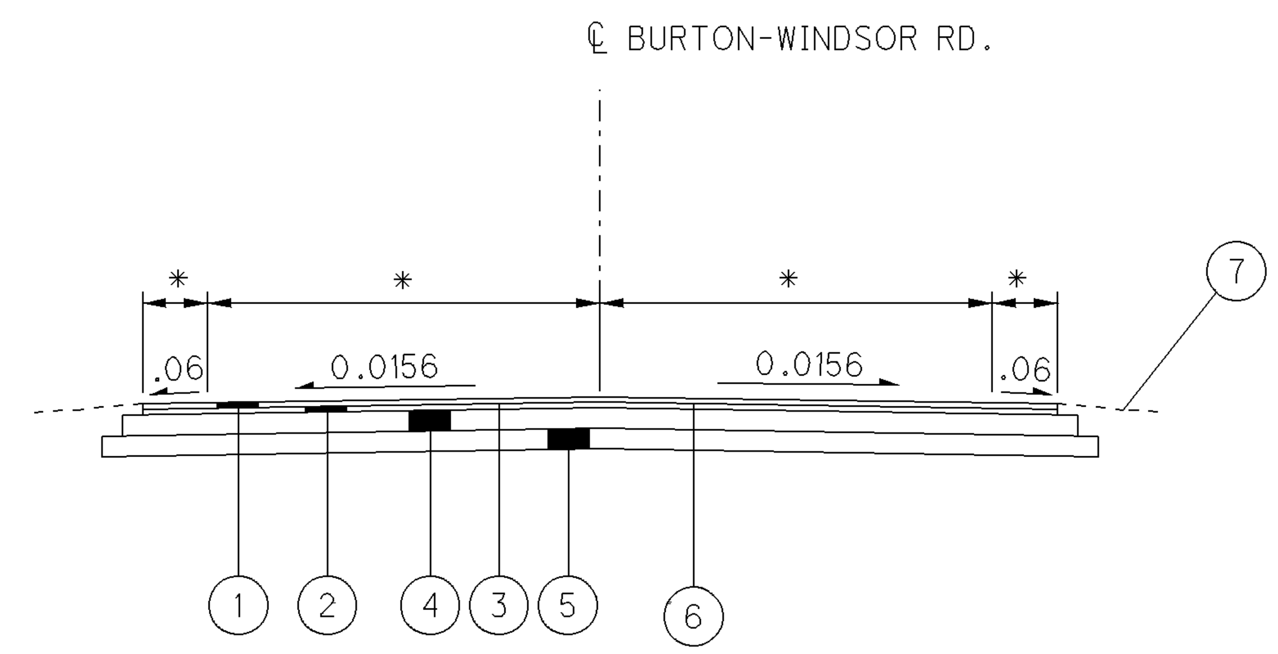

**NORMAL SECTION**
STA. 22+14 TO 22+60, SR 608



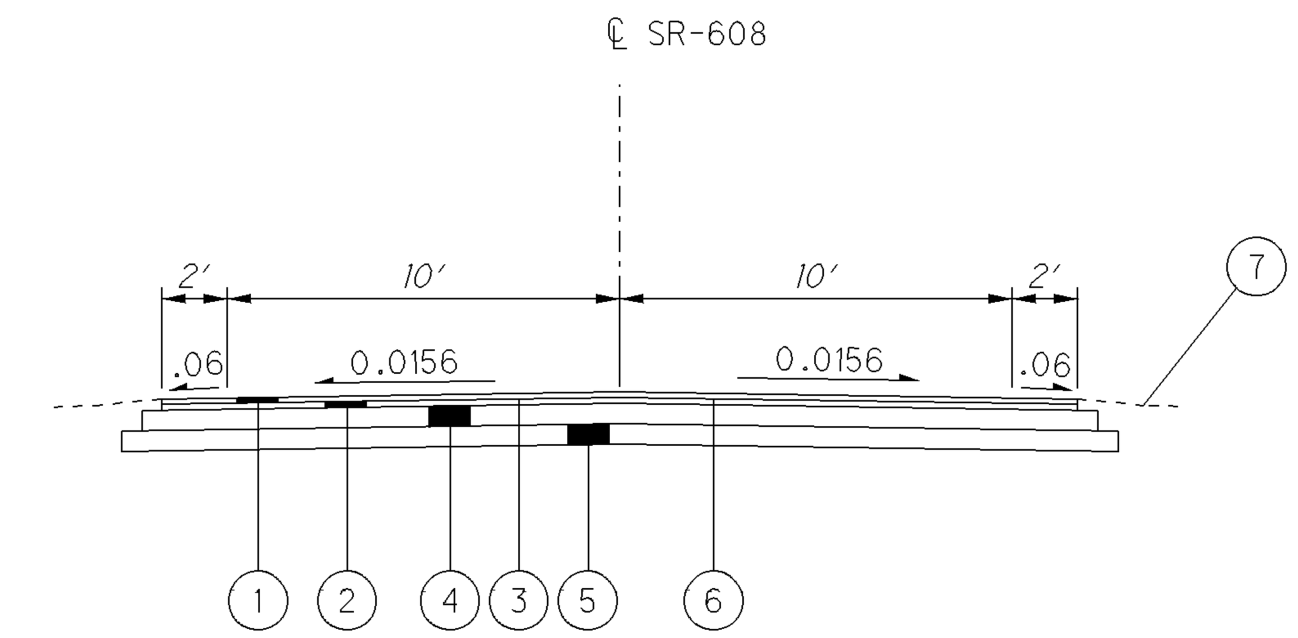

**NORMAL SECTION**
STA. 62+99 TO 63+03.5, SR 608



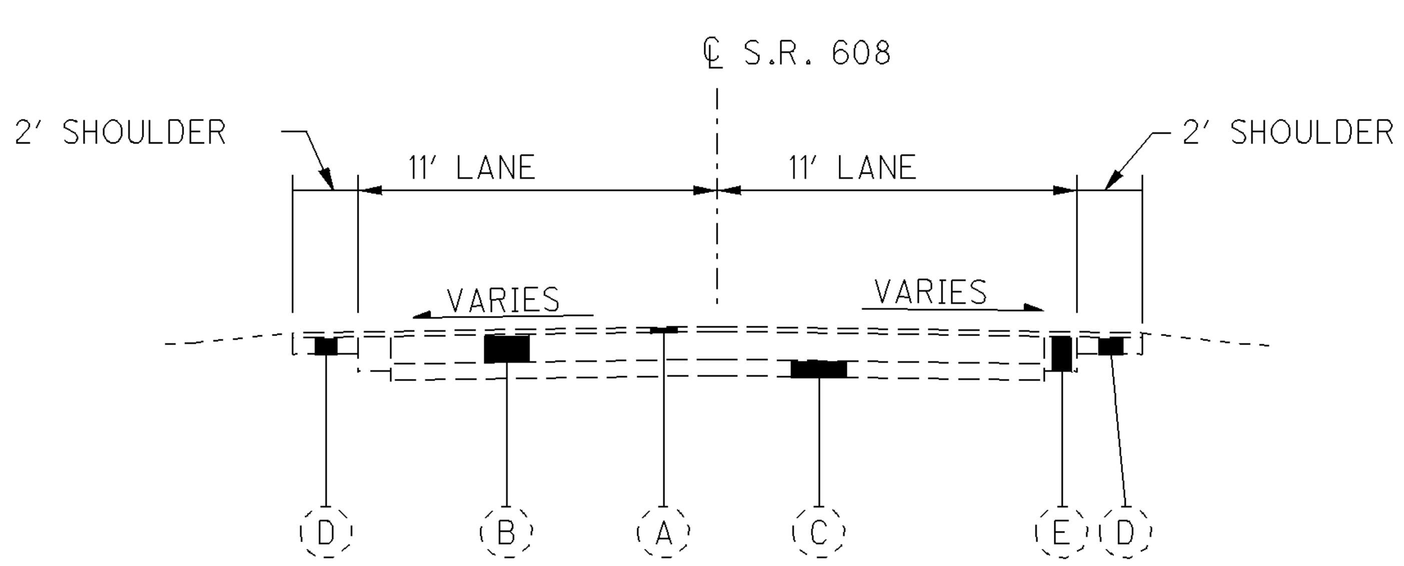

**EXISTING SECTION**
STA. 209+50 TO STA. 212+25, SR 608




**NORMAL SECTION**




**NORMAL SECTION**
STA. 22+14 TO 22+60, SR 608




**EXISTING SECTION**
STA. 212+25 TO STA. 215+00, SR 608

LEGEND

1. ITEM 448 - ASPHALT CONCRETE SURFACE COURSE, PG64-22, TYPE 1 (T=1.5″)
2. ITEM 448 - ASPHALT CONCRETE SURFACE COURSE, PG64-22, TYPE 1 (T=1.5″)
3. ITEM 407 - TACK COAT FOR INTERMEDIATE COURSE
4. ITEM 301 - 9″ ASPHALT CONCRETE BASE, PG64-22
5. ITEM 304 - AGGREGATE BASE (T=6″)
6. ITEM 407 - TACK COAT
7. ITEM 659 - SEEDING AND MULCHING
8. ITEM 606 - GUARDRAIL, TYPE 5

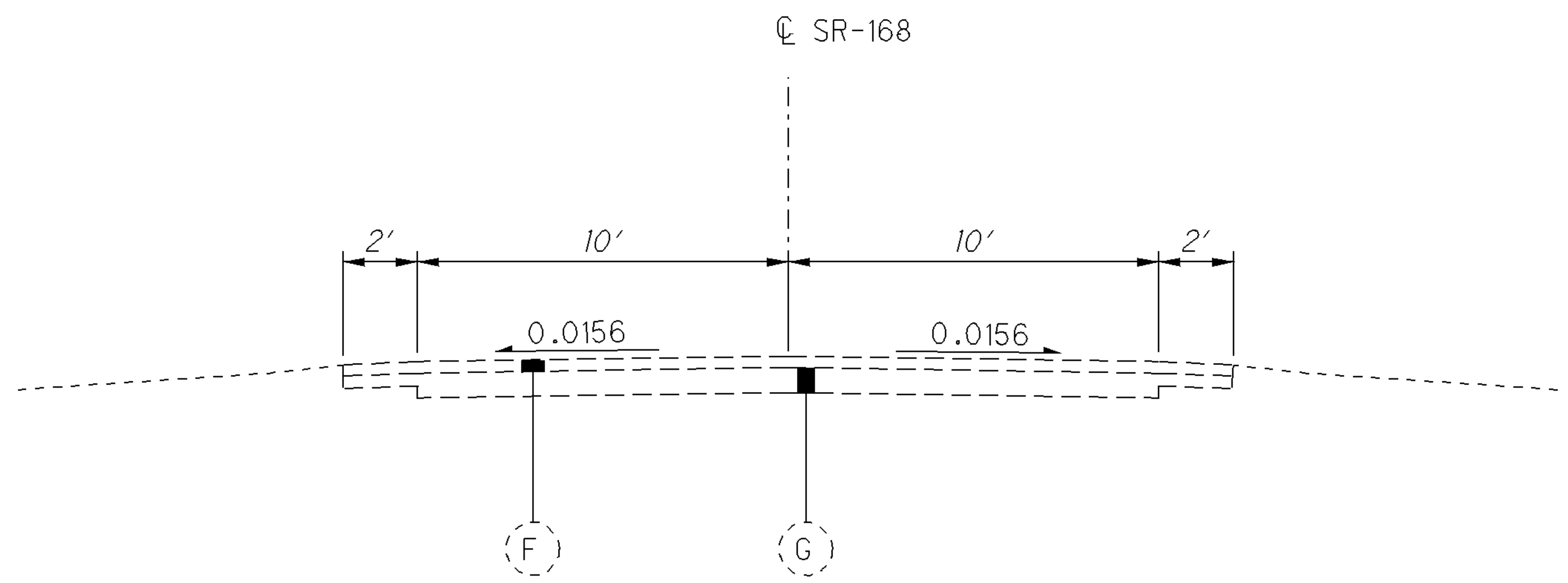
EXISTING LEGEND

A. 2″± ASPHALT CONCRETE
B. 10″± ASPHALT CONCRETE
C. 6″ ASPHALT CONCRETE BASE
D. BITUMINOUS AGGREGATE BASE
E. 12 1/2″± AGGREGATE BASE
F. 4 3/4″± ASPHALT CONCRETE
G. MACADAM BASE, 8″

*MATCH EXISTING PAVEMENT WIDTHS

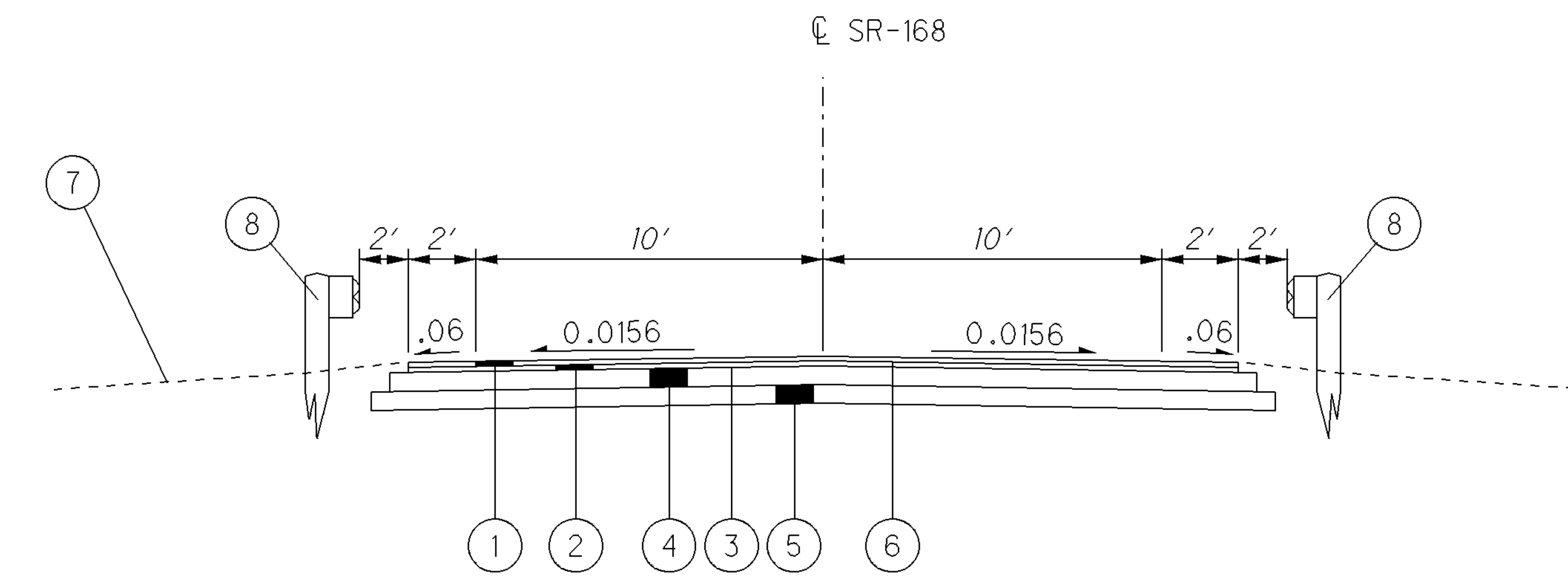
TYPICAL SECTIONS

GEA-168-3.06 AND VARIOUS



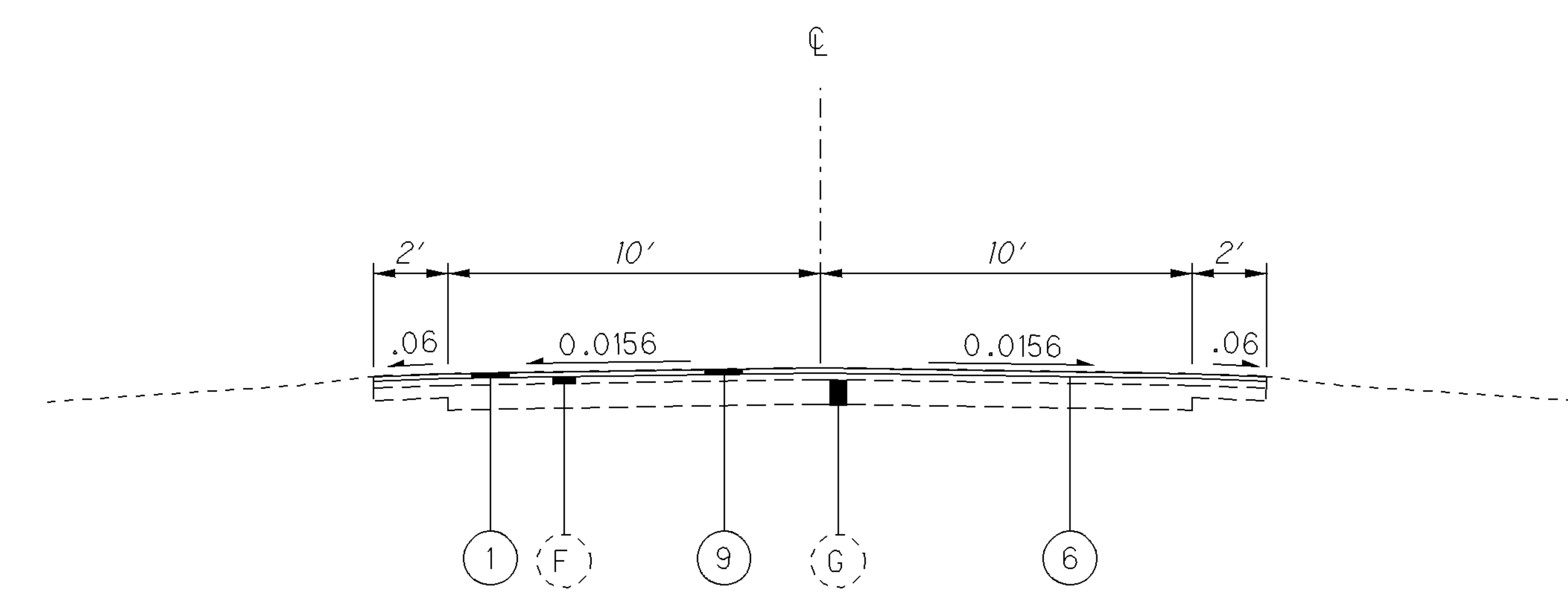

**EXISTING SECTION**

STA. 161+00 TO STA. 163+00, SR 168




**NORMAL SECTION**

STA. 161+00 TO STA. 163+00, SR 168




**EXISTING SECTION**

STA. 161+37 TO STA. 161+77, SR 168
STA. 22+98 TO STA. 22+38, SR 608
STA. 62+81 TO STA. 63+21, SR 608

LEGEND

1. ITEM 448 - ASPHALT CONCRETE SURFACE COURSE, PG64-22, TYPE 1 (T=1.5″)
2. ITEM 448 - ASPHALT CONCRETE SURFACE COURSE, PG64-22, TYPE 1 (T=1.5″)
3. ITEM 407 - TACK COAT FOR INTERMEDIATE COURSE
4. ITEM 301 - 9″ ASPHALT CONCRETE BASE, PG64-22
5. ITEM 304 - AGGREGATE BASE (T=6″)
6. ITEM 407 - TACK COAT
7. ITEM 659 - SEEDING AND MULCHING
8. ITEM 606 - GUARDRAIL, TYPE 5
9. ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE,AS PER PLAN (T= 1 1/2″ NOMINAL)

EXISTING LEGEND

- A 2″± ASPHALT CONCRETE
- B 10″± ASPHALT CONCRETE
- C 6″ ASPHALT CONCRETE BASE
- D BITUMINOUS AGGREGATE BASE
- E 12 1/2″± AGGREGATE BASE
- F 4 3/4″± ASPHALT CONCRETE
- G MACADAM BASE, 8″

**TYPICAL SECTIONS**

**GEA-168-3.06 AND VARIOUS**



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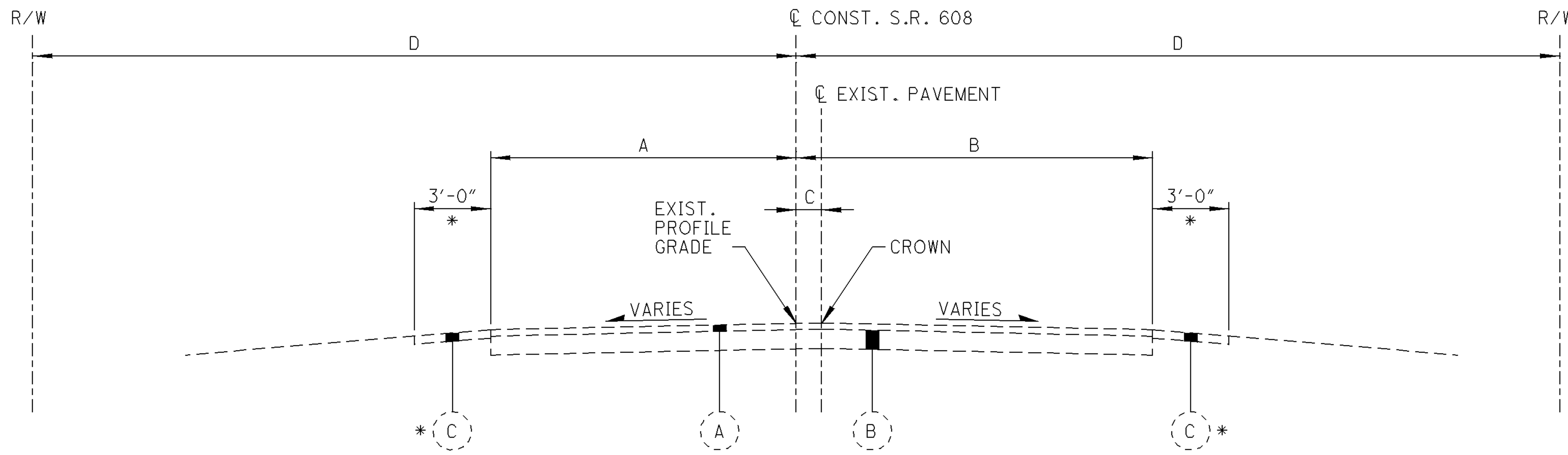
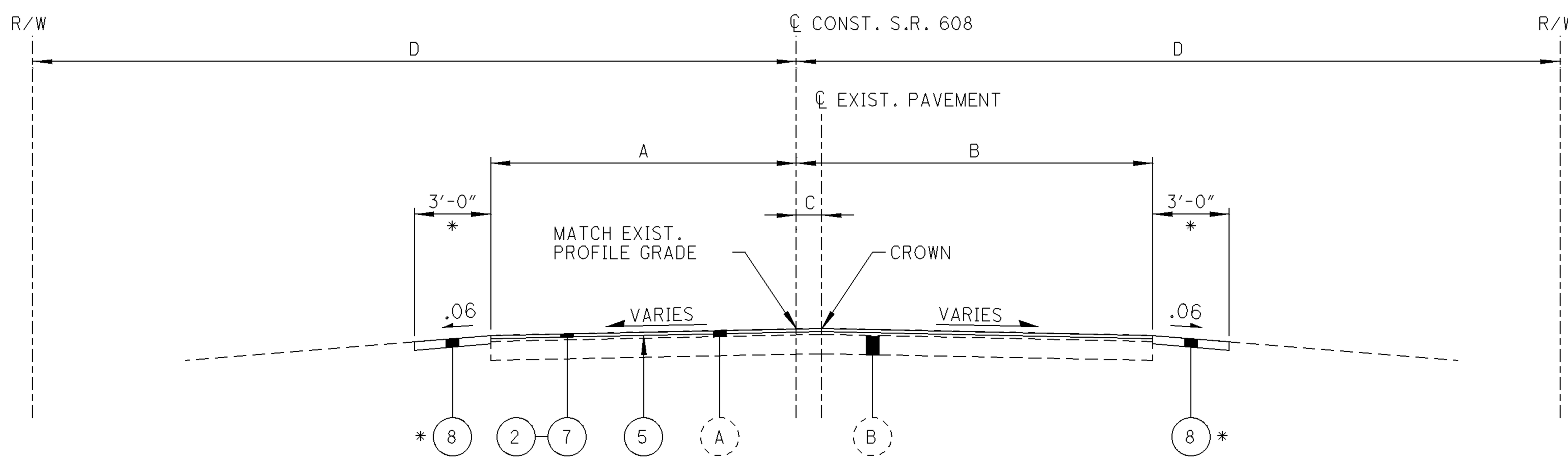


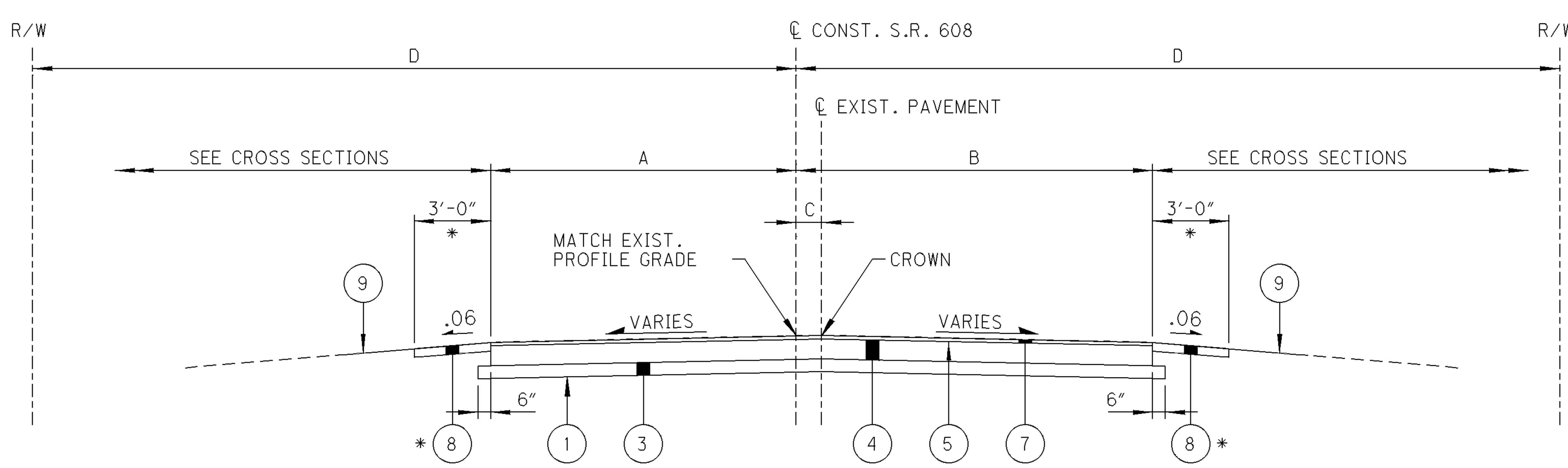

EXISTNG SECTION

* APPLIES ONLY TO GEA-608-8.13




RESURFACING SECTION

STA. 36+74 TO STA. 37+14, SR608-8.13




FULL DEPTH REPLACEMENT SECTION

STA. 36+84 TO STA. 37+04, SR608-8.13

## LEGEND - EXISTING

- (A) 3"(±) ASPHALT CONCRETE
- (B) ASPHALT CONCRETE BASE
- (C) AGGREGATE SHOULDER

## LEGEND - PROPOSED

- (1) ITEM 204 - SUBGRADE COMPACTION
- (2) ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN (T= 1½" NOMINAL)
- (3) ITEM 304 - 6" AGGREGATE BASE
- (4) ITEM 301 - 9" ASPHALT CONCRETE BASE, PG64-22
- (5) ITEM 407 - TACK COAT
- (7) ITEM 448 - 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22
- (8) ITEM 617 - 4" COMPACTED AGGREGATE
- (9) ITEM 659 - SEEDING AND MULCHING

DIMENSION TABLE

| LOCATION | A | B | C | D |
|---|---|---|---|---|
| | | | | |
| GEA-608-8.13 | 11'-6"± | 13'-6"± | 1'-0"± | 33'-0" |

# TYPICAL SECTIONS

GEA-168-3.06 AND VARIOUS



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## UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

ADELPHIA CABLE CO.
7757 AUBURN ROAD, SUITE B
PAINESVILLE, OHIO 44077
ATTN: BOB WILLIAMS
PHONE: 440-354-8000

DOMINION EAST OHIO
1201 EAST 55TH STREET
CLEVELAND, OHIO 44103
ATTN: MIKE ANTONIUS
PHONE: (216) 736-6675
FAX: (216) 736-6883

THE ILLUMINATING CO.
6896 MILLER ROAD
BRECKSVILLE, OHIO 44141
ATTN: FRANK DIBBS
PHONE: (440) 546-8748
FAX: (440) 546-8775
E-MAIL: fgdibbs@firstenergycorp.com

NORTHEAST OHIO NATURAL GAS CORP.
9081 STATE ROUTE 250
STRASBURG, OHIO 44680
ATTN: CHAD E. WALLACE
PHONE: (330)-878-5589
FAX: (330)-878-5614

SBC (AMERITECH)
13630 LORAIN AVE. - 4TH FLOOR
CLEVELAND, OHIO 44111
ATTN: COURTNEY NORRIS
PHONE: (216) 476-6142
FAX: (216) 476-6013

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

## CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED FOR SUCH ITEMS SHALL BE INCORPORATED INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

## WORK LIMITS

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

## CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

## GUARDRAIL REPLACEMENT

NO HAZARD SHALL BE LEFT UNPROTECTED EXCEPT FOR THE ACTUAL TIME NECESSARY TO REMOVE THE EXISTING GUARDRAIL, PREPARE THE SITE, AND INSTALL NEW GUARDRAIL IN A CONTINUOUS OPERATION. THE REMOVAL OF ALL GUARDRAIL SHALL AT ALL TIMES BE AS DIRECTED BY THE ENGINEER. NO GUARDRAIL SHALL BE REMOVED UNTIL THE REPLACEMENT MATERIAL IS ON THE SITE, READY FOR INSTALLATION. FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL BE DEEMED SUFFICIENT CAUSE TO ORDER WORK SUSPENDED UNTIL SUCH TIME AS THE ENGINEER IS ASSURED OF COMPLIANCE.

## BENCHING OF FOUNDATION SLOPES

ALTHOUGH CROSS-SECTIONS INDICATE SPECIFIC DIMENSIONS FOR PROPOSED BENCHING OF THE EMBANKMENT FOUNDATIONS IN CERTAIN AREAS, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. ALL OTHER SLOPED EMBANKMENT AREAS SHALL BE BENCHED AS SET FORTH IN 203.05. NO ADDITIONAL PAYMENT WILL BE MADE FOR BENCHING REQUIRED UNDER THE PROVISIONS OF 203.05.

## RIGHT-OF-WAY

ALL WORK SHALL BE PERFORMED WITH IN THE EXISTING R/W.. THE CONTRACTOR IS TO STICKILY FOLLOW THE CONDITIONS SET FORTH IN WORK AGREEMENTS. NOT ADHERING TO THE CONDITIONS SET FORTH IN THE WORK AGREEMENTS OR ANY AGREEMENTS THE CONTRACTOR MAKES WITH THE PROPERTY OWNERS OUTSIDE OF THE WORK AGREEMENTS ARE AT THE CONTRACTORS EXPENSE.

## EQUIPMENT AND MATERIAL STORAGE

IN ORDER TO PROVIDE FOR THE SAFETY OF THE TRAVELING PUBLIC, THE CONTRACTORS ATTENTION IS DIRECTED TO 614.03. IN ADDITION, THE FOLLOWING PROVISIONS SHALL APPLY:

*ANY REMOVED ITEMS SHALL NOT BE STORED ON THE RIGHT-OF-WAY FOR MORE THAN THIRTY (30) DAYS.

*THE STORAGE OF EQUIPMENT, MATERIALS, AND VEHICLES WITHIN THE HIGHWAY RIGHT-OF-WAY WILL BE PERMITTED. THE NUMBER OF AREAS AND EXACT LOCATIONS SHALL BE APPROVED BY THE ENGINEER.

*ALL DISTURBED AREAS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION AT NO EXPENSE TO THE STATE.

## ITEM 619 - FIELD OFFICE, TYPE B

A TYPE B FIELD OFFICE IS REQUIRED FOR THIS PROJECT. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 619 - FIELD OFFICE, TYPE B    5 MONTHS

## TREE REMOVAL TIME RESTRICTION

ANY UNAVOIDABLE CUTTING OF TREES WITH SUITABLE ROOSTING AND BROOD-REARING HABITAT FOR THE INDIANA BAT (LIVING OR STANDING DEAD TREES OR SNAGS WITH EXFOLIATING, PEELING OR LOOSE BARK, SPLIT TRUNKS AND/OR BRANCHES, OR CAVITIES) WILL BE PERFORMED ONLY BEFORE APRIL 15 OR AFTER SEPTEMBER 15 WHEN THE SPECIES WOULD NOT BE USING SUCH HABITATS.

## ITEM 603 - 30" CONDUIT, TYPE A, APP

THE FOLLOWING CONDUITS ARE PERMISSIBLE:
30" 707.01 (0.079) ALLUMINUM COATED OR
30" 706.02

## ITEM 603 - 36" CONDUIT, TYPE A, APP

THE FOLLOWING CONDUITS ARE PERMISSIBLE:
36" 706.02, 42" 707.01, 42" 707.01 (0.079) ALUMINUM COATED, 42" 707.05 (0.079), 42" 707.04 (0.064) 1/2" CORRUGATIONS OR 42" 707.02 (0.064) WITH CONCRETE FIELD PAVING.

## REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE STATE.

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

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

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 603 CONDUIT ITEMS.

## ITEM 606 - ANCHOR ASSEMBLY, TYPE E-98

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING EITHER OF THE FOLLOWING GUARDRAIL END TERMINALS, OR AN APPROVED EQUAL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE AT WWW.DOT.STATE.OH.US/DRRC/ UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS:

1) THE ET-2000 (1997) MANUFACTURED BY TRINITY INDUSTRY, 1170 N. STATE STREET, GIRARD, OHIO 44420 (TELEPHONE: 330-545-4373).

THE LENGTH OF THE ET-2000 (1997) SYSTEM IS CONSIDERED TO BE 50'-0", INCLUSIVE OF TWO 25'-0" LONG RAIL ELEMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PRE-APPROVED SHOP DRAWINGS:

| DWG. NO. | DRAWING NAME | DWG./ REV. DATE | ODOT APPROVAL DATE |
|---|---|---|---|
| SSS265M | ET-2000 (1997) PLAN, ELEVATION AND SECTIONS | 6/20/97 | 3/6/98 |
| SS142 | ET2000 PLUS 50'-0" PLAN, ELEVATION AND SECTION 25'-0" RAIL, SLEEVE W/PL POSTS 1-4 | 4/12/00 | 7/31/00 |
| SS141 | ET2000 PLUS PLAN, ELEVATION AND SECTION 25'-0" RAIL, HBA POSTS 1-4 | 2/29/00 | 7/31/00 |
| SS158 | ET2000 PLUS 50'-0" WITH 12'-6" PANELS AND HBA POSTS 1-4 PLAN, ELEVATION AND SECTION | 5/22/00 | 7/31/00 |

2) THE SKT-350 MANUFACTURED BY ROAD SYSTEMS, INC., 2516 MALLORY LANE, STOW, OHIO, 44224, (TELEPHONE: 330-346-0721).

THE LENGTH OF THE SKT-350 SYSTEM IS CONSIDERED TO BE 50'-0", INCLUSIVE OF FOUR 12'-6" LONG RAIL ELEMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AS DETAILED ON THE FOLLOWING PRE-APPROVED SHOP DRAWINGS:

| DWG. NO. | DRAWING NAME | DWG./ REV. DATE | ODOT APPROVAL DATE |
|---|---|---|---|
| SKT-4M | SEQUENTIAL KINKING TERMINAL (SKT-350) ASSEMBLY WITH 4 FOUNDATION TUBES | 12/11/97 | 3/6/98 |

THE FACE OF THE TYPE E-98 IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19, APPROXIMATELY 18" X 18", OR 12" X 18" IF APPLIED TO A RECTANGULAR ET-2000 "PLUS" EXTRUDER HEAD.

REFER TO THE MANUFACTURER'S INSTRUCTION REGARDING THE INSTALLATION OF, AND THE GRADING AROUND, THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4-INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 27-3/4-INCHES FROM THE EDGE OF THE SHOULDER.

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

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, TYPE E-98, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

## STREAM CHANNEL EXCAVATION

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT ANY INCIDENTAL HAULING OF MATERIAL FROM THE STREAM CHANNEL. THIS PERTAINS TO ANY EXCAVATION OPERATIONS(I.E., CHANNEL CLEAN-OUT, EXCAVATION FOR ROCK CHANNEL PROTECTION, AND REMOVAL OF ANY TEMPORARY FILL ASSOCIATED WITH CONSTRUCTION OPERATIONS).

## COOPERATION BETWEEN CONTRACTORS

THE CONTRACTOR SHALL COOPERATE AND COORDINATE HIS OPERATIONS WITH THE CONTRACTORS ON OTHER PROJECTS THAT MAY BE IN FORCE DURING THE LIFE OF THE CONTRACT. NO WAIVER OF ANY PROVISIONS OF 105.08 OF THE CMS IS INTENDED.

## ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON ASSUMED DATUMS.

## CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED OR PUNCHED. THE CONNECTION SHALL BE MADE USING A "W-BEAM RAIL SPLICE" AS SHOWN IN AASTHO M 180. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

## ITEM 202 - PIPE REMOVED, OVER 24", AS PER PLAN
## ITEM 202 - PIPE REMOVED, 24" AND UNDER, AS PER PLAN

IN ADDITION TO THE REMOVAL OF THE EXISTING CONDUIT, THIS ITEM SHALL INCLUDE REMOVAL OF THE PAVEMENT AND PAVED SHOULDERS WITHIN THE LIMITS SHOWN ON THE PLANS. ALL WORK SHALL BE IN ACCORDANCE WITH SECTION 202 OF THE CMS.

CALCULATED
CHECKED

# GENERAL NOTES

GEA-168-3.06 AND VARIOUS



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### CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

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

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

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

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 603 CONDUIT ITEM.

### ITEM 202 - GUARDRAIL REMOVED, AS PER PLAN

THIS ITEM SHALL INCLUDE BOTH STANDARD AND BARRIER TYPE RAILS AND THRIE BEAM RAILS INCLUDING ALL ANCHOR ASSEMBLIES AND TERMINAL ASSEMBLIES.

ALL RAIL SECTIONS INCLUDING THRIE BEAM AND BRIDGE TERMINAL ASSEMBLY RAIL SECTIONS SHALL BE SALVAGED BY THE CONTRACTOR. ALONG WITH THESE RAIL SECTIONS, ALL TYPE E-98 ANCHOR ASSEMBLIES AND TYPE I-98 IMPACT ATTENUATORS, SHALL BE SALVAGED.

THE SALVAGED RAIL SECTIONS AND E-98 ANCHOR ASSEMBLY AND TYPE I-98 IMPACT ATTENUATORS SHALL BE TRANSPORTED BY THE CONTRACTOR TO THE ODOT Burton YARD LOCATED AT 13595 West Center St, Burton OH 44021, Phone: (440)834-4441. THE YARD SHALL BE CONTACTED APRROXIMATELY 2 WEEKS PRIOR TO DELIVERY.

### COOPERATION BETWEEN CONTRACTORS

THE CONTRACTOR SHALL COOPERATE AND COORDINATE HIS/HER OPERATIONS WITH THE CONTRACTORS ON OTHER PROJECTS THAT MAY BE IN FORCE DURING THE LIFE OF THE CONTRACT. NO WAIVER OF ANY PROVISIONS OF 105.07 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS IS INTENDED.

### AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND HELIPORTS

THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF A PUBLIC USE AIRPORT OR HELIPORT. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT AT MAXIMUM OPERATING HEIGHT SHALL EXCEED A HEIGHT OF 50 FT.. IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THIS HEIGHT, FURTHER COORDINATION WITH THE FEDERAL AVIATION ADMINISTRATION (FAA), AND ODOT OFFICE OF AVIATION, WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO FILE A NEW FAA FORM 7460-1, ADVISING THE FAA THAT AERONAUTICAL STUDY NO. 2008-AGL-7022-OE IS BEING RESUBMITTED AND THAT AN ALTERATION TO THE ORIGINAL SUBMISSION IS REQUESTED.

COPIES OF THE ALTERATION AND FORM 7460-1 SHALL BE FORWARDED TO THE ODOT OFFICE OF AVIATION. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT, UNTIL A COPY OF THE FAA APPROVAL AND ODOT OFFICE OF AVIATION PERMIT HAS BEEN FURNISHED TO THE PROJECT ENGINEER.

FAA APPROVAL MAY TAKE UP TO 45 DAYS. ALL SUBMISSIONS SHALL BE DIRECTED TO THESE OFFICES:

Express Processing Center
The Federal Aviation Administration
Southwest Regional Office
Air Traffic Airspace Branch ASW-520
2601 Meachan Blvd.
Fort Worth, TX 76137-4298

Ohio Department of Transportation
Office of Aviation
2829 West Dublin-Granville Road
Columbus, Ohio 43235
614-387-2346

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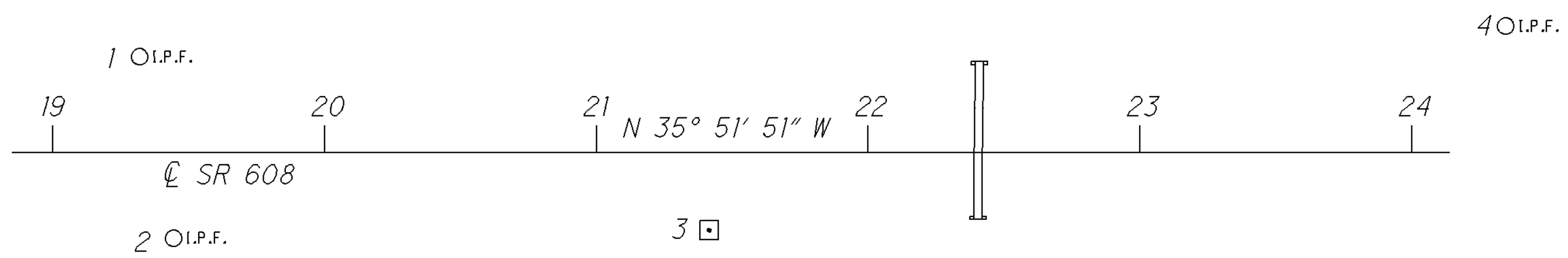
GENERAL NOTES

GEA-168-3.06
AND VARIOUS

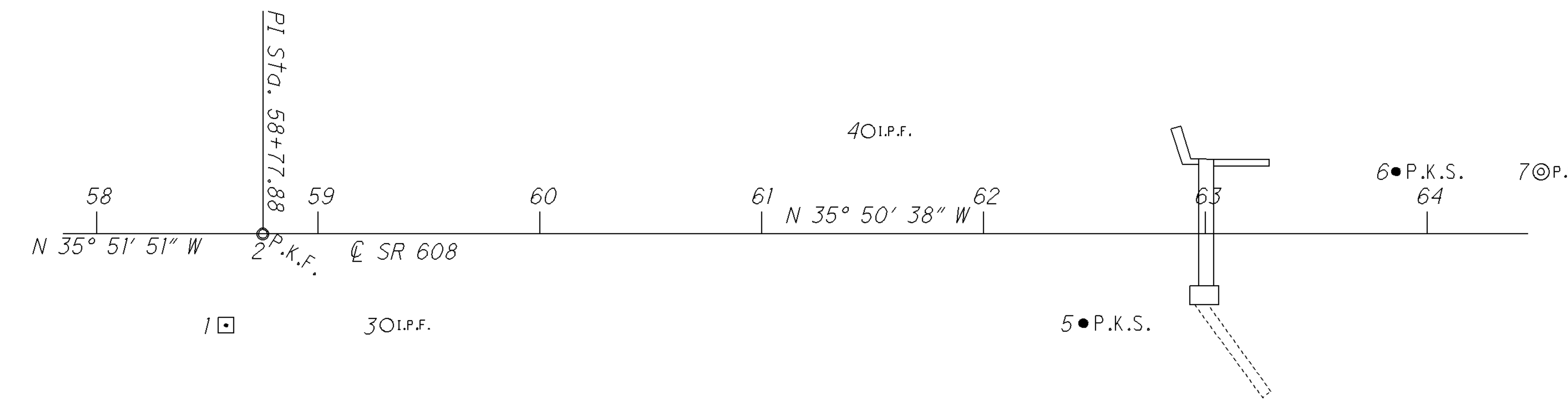



| REFERENCE | STA. | OFFSET | ELEVATION |
|---|---|---|---|
| 1 | 19+31.382 | 31.224′ LT | 110.398 |
| 2 | 19+43.014 | 32.921′ RT | 106.957 |
| 3 | 21+46.434 | 31.500′ RT | 100.000 |
| 4 | 24+43.963 | 26.314′ LT | 108.167 |
| | | | |
| | | | |

O I.P.F. IRON PIN FOUND

▣ WOOD HUB

## GEA-608-0.42




| REFERENCE | STA. | OFFSET | ELEVATION |
|---|---|---|---|
| 1 | 58+64.584 | 25.223′ RT | 122.135 |
| 2 | 58+77.875 | 0.000′ | 123.299 |
| 3 | 59+28.581 | 32.938′ RT | 121.939 |
| 4 | 61+50.161 | 33.449′ LT | 124.755 |
| 5 | 62+69.481 | 33.644′ RT | 116.100 |
| 6 | 63+91.798 | 15.303′ LT | 117.601 |
| 7 | 64+50.760 | 31.806′ LT | 119.996 |

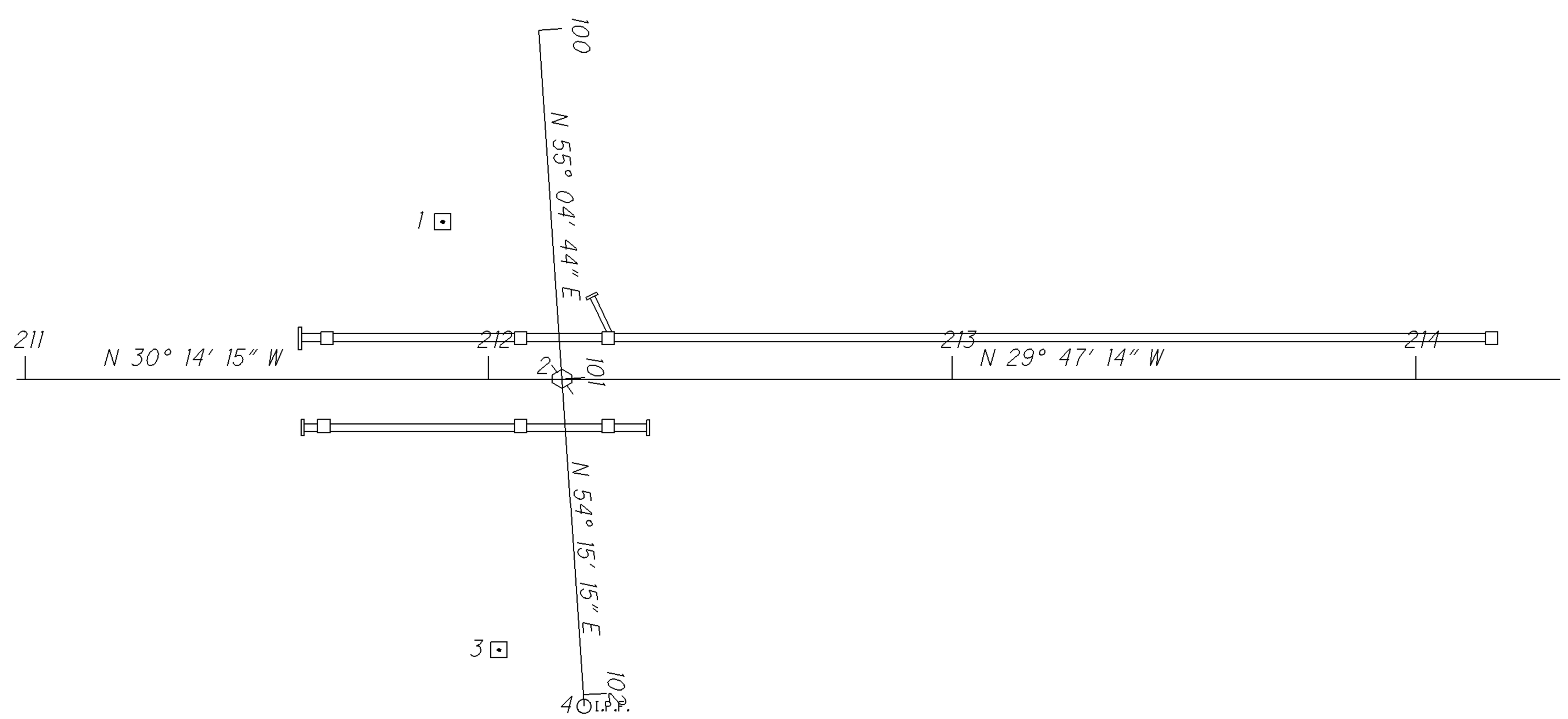
◎ P.F. PIN FOUND

O I.P.F. IRON PIN FOUND

▣ WOOD HUB

● P.K.S. PK NAIL SET

## GEA-608-1.19



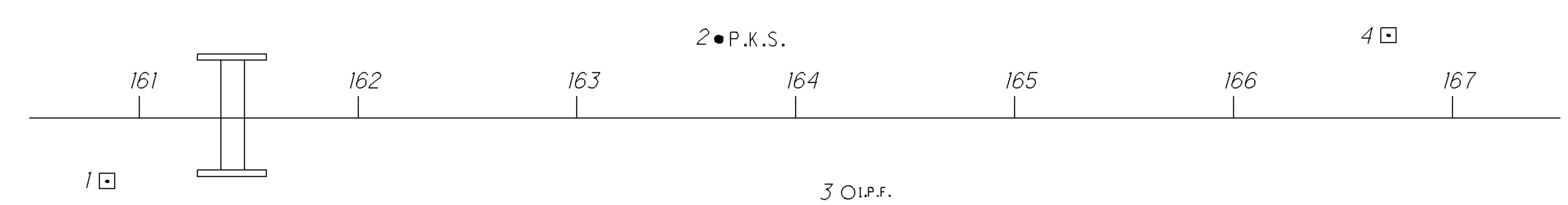

| REFERENCE | STA. | | OFFSET | | ELEVATION |
|---|---|---|---|---|---|
| | 608 | B-W RD | 608 | B-W RD | |
| 1 | 212+00.000 | 212+00.000 | 23.200′ LT | 23.200′ LT | 100.26 |
| 2 | 19+20 | 19+20 | 23.2′ LT | 23.2′ LT | 100.26 |
| 3 | 19+20 | 19+20 | 23.2′ LT | 23.2′ LT | 100.26 |
| 4 | 19+20 | 19+20 | 23.2′ LT | 23.2′ LT | 100.26 |

O I.P.F. IRON PIN FOUND

▣ WOOD HUB

RR SPIKE FOUND

## GEA-608-4.02




| REFERENCE | STA. | OFFSET | ELEVATION |
|---|---|---|---|
| 1 | 160+89.710 | 17.358′ RT | 100.000 |
| 2 | 163+67.202 | 17.794′ LT | 101.934 |
| 3 | 164+25.367 | 28.155′ RT | 102.592 |
| 4 | 166+69.499 | 18.364′ LT | 106.318 |
| | | | |
| | | | |

O I.P.F. IRON PIN FOUND

▣ WOOD HUB

● P.K.S. PK NAIL SET

## GEA-168-3.06

CALCULATED JTW CHECKED

# BENCHMARKS AND REFERENCES

GEA-168-3.06 AND VARIOUS



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*ITEM 614 - MAINTENANCE OF TRAFFIC*

SET UP TEMPORARY TRAFFIC CONTROL AS DESCRIBED BELOW AND AS SHOWN.

IN NO PARTICULAR ORDER, THE CONTRACTOR SHALL CLOSE THE ROADWAY TO ALL TRAFFIC PER DETOUR PLAN FOR PROJECT GEA-168-3.06 AND MAINTAIN ONE LANE PER STANDARD DRAWING 97.10 FOR PROJECTS GEA-608-0.42 1.19,4.02, 8.13. NO MORE THAN ONE PROJECT LOCATION SHALL HAVE LANE RESTRICTIONS/CLOSURES AT A TIME.

THE CONTRACTOR SHALL NOTIFY THE ENGINEER, THE GEAUGA COUNTY SHERRIF'S OFFICE, AND THE OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 12 PUBLIC INFORMATION OFFICE BY E-MAIL AT "D12.PUBLICINFORMATION@DOT.STATE.OH.US" OR BY FAX AT 216-584-3524 NOT LESS THAN TWENTY-FOUR (24) HOURS PRIOR TO A SCHEDULED DISRUPTION OF TRAFFIC.

GEA-168-3.06 DETOUR

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED 7 CONSECUTIVE CALENDAR DAYS, WHEN THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON SHEET 9. DISINCENTIVES SHALL BE ASSESSED (IN ACCORDANCE WITH CMS108.07)(IN THE AMOUNT OF $ 1,400 PER DAY) FOR EACH CALENDAR DAY THE ROADWAY REMAINS CLOSED TO TRAFFIC

NOTICE OF CLOSURE SIGNS, AS DETAILED IN THESE PLANS SHALL BE ERECTED BY THE CONTRACTOR AT LEAST TWO WEEKS IN ADVANCE OF THE SCHEDULED CLOSURE. THE SIGNS SHALL BE ERECTED ON THE RIGHTHAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. THEY SHOULD BE ERECTED AT THE POINT OF CLOSURE.

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48 x 30 INCHES ROAD CLOSED SIGNS, SIGN SUPPORTS, BARRICADES, GATES AND LIGHTS, AS DETAILED IN STANDARD DRAWING MT-101.60 AT THE LOCATIONS SHOWN ON THE FOLLOWING SHEET, DURING PERIODS IN WHICH THE AFFECTED ROADS ARE CLOSED TO TRAFFIC.

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN DETOUR SIGNS AND SIGN SUPPORTS, AS DETALIED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND AS SHOWN ON THE DETOUR MAP.

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

*TRENCH FOR PIPE REMOVAL AND CULVERT CONSTRUCTION*

THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES. PLACEMENT OF PROPOSED BACKFILL AND BASE MATERIAL SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND THE EXCAVATION AND CONDUIT LAYING OPERATIONS. THE LENGTH OF TRENCH OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

THE RIDING SURFACE OVER THE TRENCH SHALL BE RESTORED TO THE SAME LEVEL AS THE EXISTING PAVEMENT AT THE END OF EACH WORK DAY BY THE USE OF TEMPORARY OR PERMANENT SURFACES. ROAD PLATES SECURED IN PLACE AND OVERLAID WITH ASPHALT CONCRETE MAY BE USED FOR OVERNIGHT TRENCH CLOSURES WHERE WORK IS TO RESUME THE NEXT DAY. NO PORTION OF THE TRENCH SHALL BE LEFT OPEN OVERNIGHT.

ALL COSTS ASSOCIATED WITH THESE REQUIREMENTS SHALL BE INCLUDED FOR PAYMENT WITH ITEM 614, MAINTAINING TRAFFIC.

*ITEM 614-MAINTANING TRAFFIC (CONTINGENCY QUANTITIES)*

THE FOLLOWING QUANTITIES ARE PROVIDED FOR USE AS DIRECTED BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC:

| | |
|---|---|
| ITEM 410 - TRAFFIC COMPACTED SURFACE, TYPE A OR B | 20 CU YD |
| ITEM 614 - ASPHALT CONCRETE FOR MAINTAINING TRAFFIC | 50 CU YD |
| ITEM 616 - WATER | 10 MGAL |

CALCULATED JTW
CHECKED

MAINTENANCE OF TRAFFIC

GEA-168-3.06 AND VARIOUS

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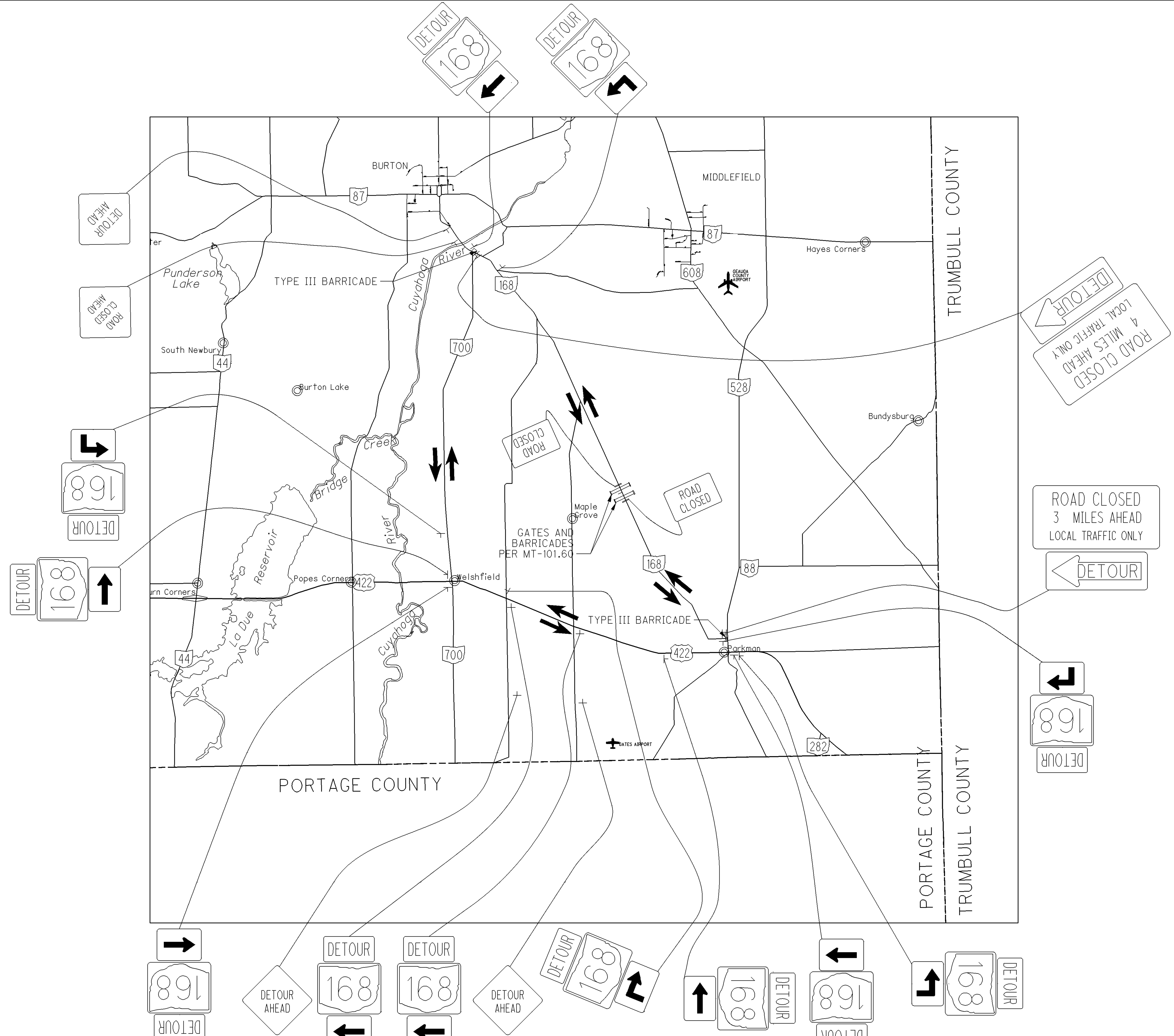



# DETOUR PLAN GEA-168-3.06

GEA-168-3.06 AND VARIOUS

HORIZONTAL SCALE IN FEET

CALCULATED

CHECKED

| SHEET NUMBER 6 | 13 | 14 | 16 | 17 | 18 | 20 | 21 | 22 | | | | PARTICIPATION | | ITEM | ITEM EXT. | GRAND TOTAL | UNIT | DESCRIPTION | SEE SHEET NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | ROADWAY | |
| LUMP | | | | | | | | | | | | | | 201 | 11000 | LUMP | | CLEARING AND GRUBBING | |
| | | | | | | 21 | | | | | | | | 202 | 23000 | 21 | SQ YD | PAVEMENT REMOVED | |
| | | 2 | | | | 1 | | | | | | | | 202 | 20010 | 3 | EACH | HEADWALL REMOVED | |
| | | | | 1 | | 356 | 72 | | | | | | | 202 | 35101 | 429 | FT | PIPE REMOVED, 24" AND UNDER, AS PER PLAN | 6 |
| | | 39 | 46 | 43 | | | | | | | | | | 202 | 35201 | 128 | FT | PIPE REMOVED, OVER 24", AS PER PLAN | 6 |
| | | 238 | | | | | | | | | | | | 202 | 38001 | 238 | FT | GUARDRAIL REMOVED, AS PER PLAN | 7 |
| | | 4 | | | | | | | | | | | | 202 | 42000 | 4 | EACH | ANCHOR ASSEMBLY REMOVED, TYPE A | |
| | | | | | | 3 | | | | | | | | 202 | 58100 | 3 | EACH | CATCH BASIN REMOVED | |
| | | | | 0.25 | | | | | | | | | | 209 | 60200 | 0.25 | STATION | LINEAR GRADING | |
| | | 137.5 | | 100 | | | 387.5 | | | | | | | 606 | 13000 | 625 | FT | GUARDRAIL, TYPE 5 | |
| | | 50 | | | | | | | | | | | | 606 | 17290 | 50 | FT | GUARDRAIL, TYPE 5, LONG-SPAN | |
| | | 2 | | 1 | | | 2 | | | | | | | 606 | 22010 | 5 | EACH | ANCHOR ASSEMBLY, TYPE E-98 | |
| | | 2 | | 1 | | | 4 | | | | | | | 606 | 26500 | 7 | EACH | ANCHOR ASSEMBLY, TYPE T | |
| | | | | | | | | | | | | | | | | | | EROSION CONTROL | |
| | | 9 | 2 | | | | | 3 | | | | | | 601 | 32204 | 14 | CU YD | ROCK CHANNEL PROTECTION, TYPE C WITH FABRIC FILTER | |
| | 2387 | | | | | | | | | | | | | 659 | 10000 | 2387 | SQ YD | SEEDING AND MULCHING | |
| | 0.21 | | | | | | | | | | | | | 659 | 20000 | 0.21 | TON | COMMERCIAL FERTILIZER | |
| | 0.49 | | | | | | | | | | | | | 659 | 31000 | 0.49 | ACRE | LIME | |
| | 6 | | | | | | | | | | | | | 659 | 35000 | 6 | M GAL | WATER | |
| | | | | | | | | | | | | | | 832 | 30000 | 16000 | EACH | EROSION CONTROL | |
| | | | | | | | | | | | | | | | | | | DRAINAGE | |
| | | 18.9 | 1.38 | 0.1 | 5.8 | 1.33 | | 1.4 | | | | | | 602 | 20000 | 28.91 | CU YD | CONCRETE MASONRY | |
| | | | | | | 26 | | | | | | | | 603 | 04600 | 26 | FT | 12" CONDUIT, TYPE C | |
| | | | | | | 69 | | | | | | | | 603 | 07400 | 69 | FT | 18" CONDUIT, TYPE B | |
| | | | | | | 168 | | | | | | | | 603 | 07600 | 168 | FT | 18" CONDUIT, TYPE C | |
| | | | | | | 68 | | | | | | | | 603 | 10400 | 68 | FT | 24" CONDUIT, TYPE B | |
| | | | | | | 331 | | | | | | | | 603 | 10600 | 331 | FT | 24" CONDUIT, TYPE C | |
| | | | | 4 | | | | | | | | | | 603 | 07600 | 4 | FT | 18" CONDUIT, TYPE C, 707.01 | |
| | | | | 43 | | | | | | | | | | 603 | 13401 | 43 | FT | 30" CONDUIT, TYPE B, AS PER PLAN | 6 |
| | | | | | | | | 64 | | | | | | 603 | 16200 | 64 | FT | 36" CONDUIT, TYPE A, 706.02: OR 42" 707.01 (0.079) ALUMINUM COATED | |
| | | | 51 | | | | | | | | | | | 603 | 16201 | 51 | FT | 36" CONDUIT, TYPE A, AS PER PLAN | 6 |
| | | 40 | | | | | | | | | | | | 603 | 53000 | 40 | FT | 38" x 60" CONDUIT, TYPE A, 706.04 | |
| | | | | | | 7 | | | | | | | | 604 | 04900 | 7 | EACH | CATCH BASIN, NO. 2-3 | |
| | | | | 1 | | | | | | | | | | 604 | 09000 | 1 | EACH | CATCH BASIN ADJUSTED TO GRADE | |
| | 75 | | | | | | | | | | | | | 613 | 41200 | 75 | CU YD | LOW STRENGTH MORTAR BACKFILL | |
| | | | | | | | | | | | | | | | | | | PAVEMENT | |
| | 440 | | | | | | | | | | | | | 254 | 01000 | 440 | SQ YD | PAVEMENT PLANING, ASPHALT CONCRETE (T=1.5") | |
| | 34 | | | | | | | | | | | | | 301 | 46000 | 34 | CU YD | ASPHALT CONCRETE BASE, PG64-22 | |
| | 26 | | | | | | | | | | | | | 304 | 20000 | 26 | CU YD | AGGREGATE BASE | |
| | 22 | | | | | | | | | | | | | 407 | 14000 | 22 | GALLON | TACK COAT FOR INTERMEDIATE COURSE | |
| | 18 | | | | | | | | | | | | | 407 | 10000 | 18 | GALLON | TACK COAT | |
| | 24 | | | | | | | | | | | | | 448 | 47020 | 24 | CU YD | ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22 | |
| | | | | | | 21 | | | | | | | | 452 | 10000 | 21 | SQ YD | 6" NON-REINFORCED CONCRETE PAVEMENT | |
| | 3 | | | | | | | | | | | | | 617 | 10100 | 3 | CU YD | COMPACTED AGGREGATE | |

CALCULATED CHECKED

GENERAL SUMMARY

GEA-168-3.06 AND VARIOUS

| SHEET NUMBER | | | | | | | | | | | | PARTICIPATION | | ITEM | ITEM EXT. | GRAND TOTAL | UNIT | DESCRIPTION | SEE SHEET NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 9 | 13 | 14 | 17 | 18 | 21 | 22 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | TRAFFIC CONTROL | |
| | | | 6 | 4 | | 10 | | | | | | | | 626 | 00100 | 20 | EACH | BARRIER REFLECTOR, A2 | |
| | | 0.07 | | | | | | | | | | | | 642 | 00090 | 0.07 | MILE | EDGE LINE | |
| | | 0.03 | | | | | | | | | | | | 642 | 00290 | 0.03 | MILE | CENTER LINE | |
| | | | | | | | | | | | | | | | | | | STRUCTURES | |
| | | | | | | | LUMP | | | | | | | 503 | 11100 | LUMP | | COFFERDAMS, CRIBS AND SHEETING | |
| | | | | | 95 | | | | | | | | | 509 | 10000 | 95 | POUND | EPOXY COATED REINFORCING STEEL | |
| | | | | | | | | | | | | | | | | | | MAINTENANCE OF TRAFFIC | |
| | 20 | | | | | | | | | | | | | 410 | 12000 | 20 | CU YD | TRAFFIC COMPACTED SURFACE, TYPE A OR B | |
| | 50 | | | | | | | | | | | | | 614 | 13000 | 50 | CU YD | ASPHALT CONCRETE FOR MAINTAINING TRAFFIC | |
| | 10 | | | | | | | | | | | | | 616 | 10000 | 10 | MGAL | WATER | |
| | | | | | | | | | | | | | | 614 | 11000 | LUMP | | MAINTAINING TRAFFIC | |
| 5 | | | | | | | | | | | | | | 619 | 16010 | 5 | MONTH | FIELD OFFICE, TYPE B | |
| | | | | | | | | | | | | | | 623 | 10000 | LUMP | | CONSTRUCTION LAYOUT STAKES | |
| | | | | | | | | | | | | | | 624 | 10000 | LUMP | | MOBILIZATION | |

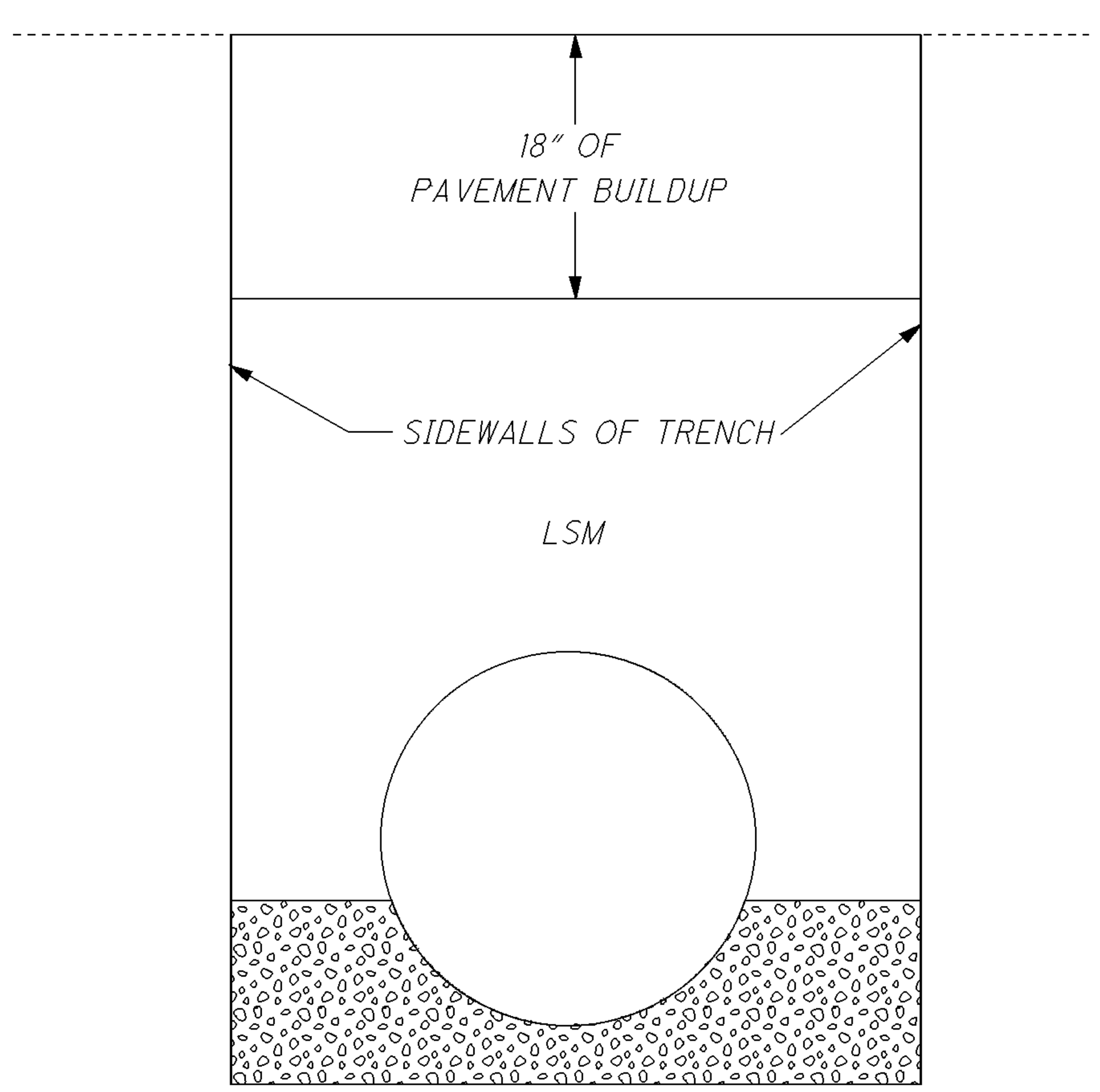
CALCULATED CHECKED

GENERAL SUMMARY

GEA-168-3.06 AND VARIOUS

| LOCATION | STATION TO STATION FROM | STATION TO STATION TO | SIDE | LENGTH L | AVERAGE WIDTH W | SURFACE AREA A A=L x W | AREAS BY CAD | 254 PAVEMENT PLANING, ASPHALT CONCRETE (T=1 1/2") A/9 SY | 301 ASPHALT CONCRETE BASE (T=9") A x (9/12)/27 CY | 304 AGGREGATE BASE A x (6/12)/27 CY | 407 TACK COAT A x 0.10/9 GAL | 407 TACK COAT FOR INTERMEDIATE COURSE A x 0.05/9 GAL | 448 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22 A x(1.5/12)/27 CY | 617 COMPACTED AGGREGATE A x (4/12)/27 CY | 642 CENTER LINE L/5280 MILE | 642 EDGE LINE L x 2/5280 MILE | 613 LOW STRENGTH MORTAR BACKFILL L x ABC/27 CY | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GEA-168-3.06 | 161+37 | 161+77 | CL | 40 | 24 | 960 | | 106.67 | | | 10.67 | | 4.44 | | 0.01 | 0.02 | | |
| | 161+53 | 161+61 | CL | 8 | 25 | 200 | | | 5.56 | 3.70 | | 1.11 | 0.93 | | | | | |
| | 161+57 | 161+57 | CL | 25 | | | 13.34 | | | | | | | | | | 12.35 | |
| GEA-608-0.42 | 21+98 | 22+38 | CL | 40 | 25 | 1000 | | 111.11 | | | | 5.56 | 4.63 | | 0.01 | 0.02 | | |
| | 22+15 | 22+21 | CL | 6 | 25 | 150 | | | 4.17 | 2.78 | 1.67 | | 0.69 | | | | | |
| | 22+15 | 22+21 | CL | 25 | | | 14.56 | | | | | | | | | | 13.48 | |
| GEA-608-1.19 | 62+81 | 63+21 | CL | 40 | 25 | 1000 | | 111.11 | | | | 5.56 | 4.63 | | 0.01 | 0.02 | | |
| | 62+97 | 63+03 | CL | 6 | 25 | 150 | | | 4.17 | 2.78 | 1.67 | | 0.69 | | | | | |
| | 62+97 | 63+03 | CL | 25 | | | 17.65 | | | | | | | | | | 16.34 | |
| GEA-608-4.02 | 211+93 | 212+50 | CL | 51 | 7.5 | 382.5 | | | 10.63 | 7.08 | 4.25 | | 1.77 | | | | | |
| | 211+93 | 212+50 | CL | 51 | 7.5 | 382.5 | | | | | | 2.13 | 1.77 | | | | | |
| | 211+93 | 212+50 | CL | 51 | | | 13.45 | | | | | | | | | | 25.41 | |
| | DRIVE | DRIVE | LT | 14 | | | 16.79 | | | | | | | | | | 6.97 | |
| GEA-608-8.13 | 36+74 | 37+14 | CL | 40 | 25 | 1000 | | 111.11 | | | | 5.56 | 4.63 | | | | | |
| | 36+74 | 37+14 | CL | 40 | 6 | 240 | | | | | | | | 2.96 | | | | |
| | 36+64 | 37+24 | CL | 60 | | | | | | | | | | | 0.01 | 0.02 | | |
| | 36+84 | 37+04 | CL | 20 | 26 | 520 | | | 9.63 | 9.63 | | 2.31 | | | | | | |
| **TOTALS** | | | | | | | | 440.00 | 34.14 | 25.97 | 18.25 | 22.21 | 24.19 | 2.96 | 0.03 | 0.07 | 74.56 | |
| **TOTALS CARRIED TO GENERAL SUMMARY** | | | | | | | | 440 | 34 | 26 | 18 | 22 | 24 | 3 | 0.03 | 0.07 | 75 | |

PAVEMENT REPAIR DETAIL




NOT TO SCALE

| LOCATION | STATION TO STATION FROM | STATION TO STATION TO | AREAS BY CAD | 659 SEEDING AND MULCHING A/9 SY | 659 COMMERCIAL FERTILIZER A x 0.00009/9 TON | 659 LIME A/43560 ACRE | 659 WATER A x 0.0027/9 MGAL |
|---|---|---|---|---|---|---|---|
| GEA-168-3.06 | 160+85 | 162+56 | 3332 | 370.22 | 0.03 | 0.08 | 1.00 |
| GEA-608-0.42 | 21+98 | 22+38 | 1546 | 171.78 | 0.02 | 0.04 | 0.46 |
| GEA-608-1.19 | 62+40 | 63+65 | 1611 | 179.00 | 0.02 | 0.04 | 0.48 |
| GEA-608-4.02 | 210+50 | 214+50 | 9479 | 1053.22 | 0.09 | 0.22 | 2.84 |
| GEA-608-8.13 | 34+86 | 39+02 | 5517 | 613.00 | 0.06 | 0.13 | 1.66 |
| **TOTALS** | | | | 2387.22 | 0.21 | 0.49 | 6.45 |
| **TOTALS CARRIED TO GENERAL SUMMARY** | | | | 2387 | 0.21 | 0.49 | 6 |

CALCULATED JTW
CHECKED

CALCULATIONS

GEA-168-3.06 AND VARIOUS

## EXISTING STRUCTURE

TYPE: 30" x 36" CONCRETE BOX CULVERT

SKEW: 0°

ALIGNMENT: TANGENT

## PROPOSED STRUCTURE

TYPE: 38" x 60" CONDUIT, TYPE A, 706.04

SKEW: : 0°

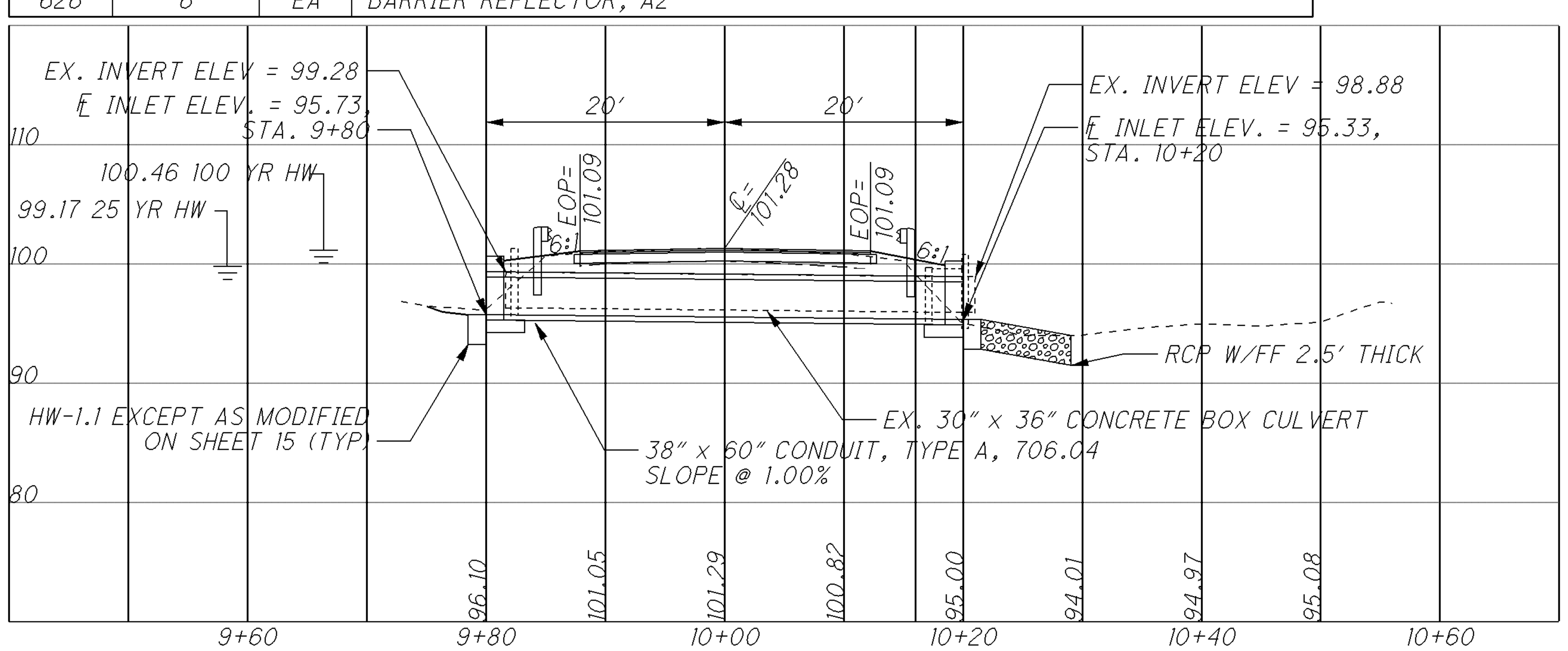
ALIGNMENT: TANGENT

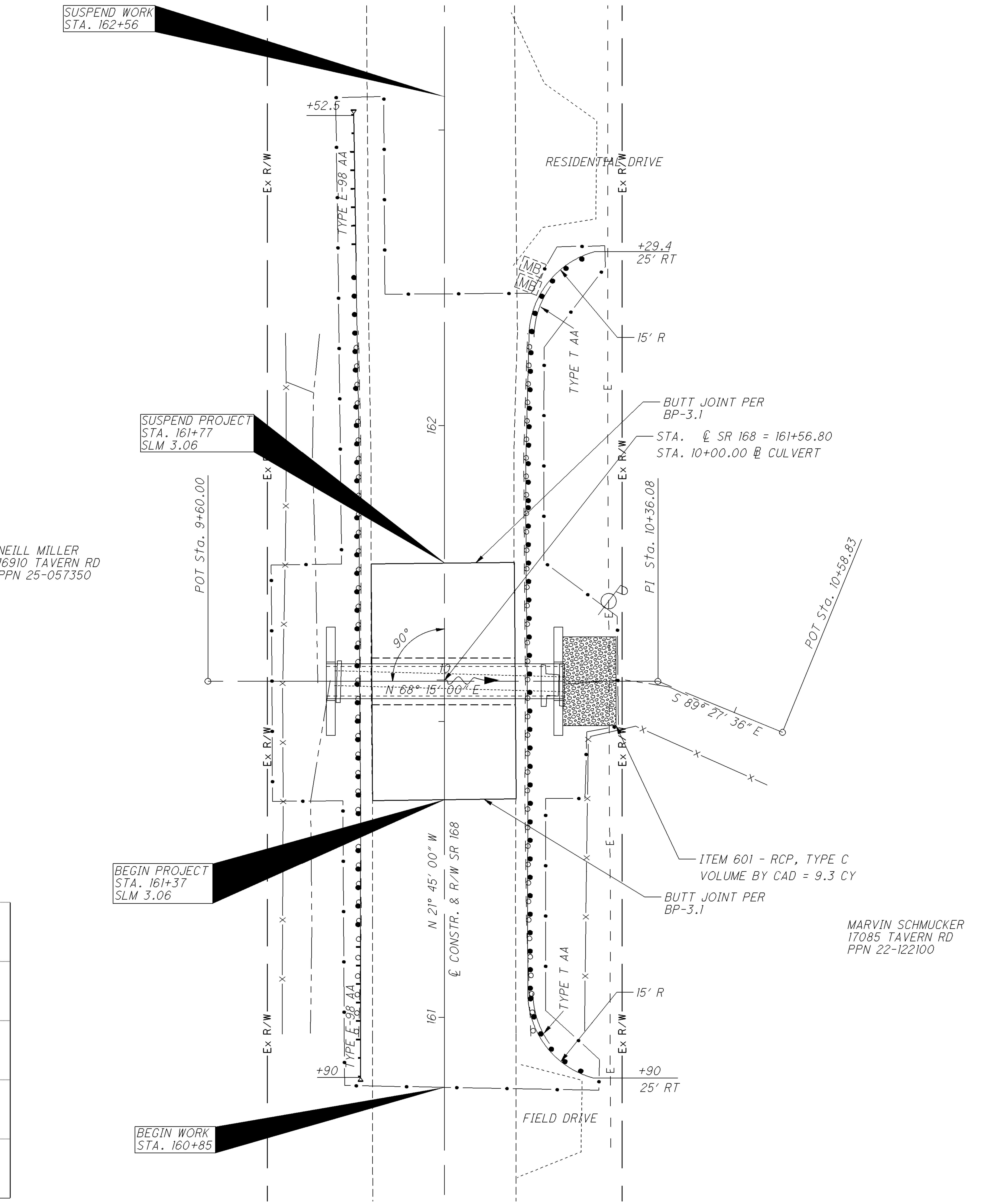
## HYDRAULIC DESIGN DATA

DRAINAGE AREA: 62 ACRES
Q(25): 80.5 CFS
HW(25): 99.17 FT
V(25): 12.26 FT/S
Q(100): 116.7 CFS
HW(100): 100.46 FT
V(100): 13.56 FT/S

## ESTIMATED QUANTITIES CARRIED TO GENERAL SUMMARY

| ITEM | QUANTITY | UNIT | DESCRIPTION |
|---|---|---|---|
| 202 | 39 | FT | PIPE REMOVED, OVER 24", APP |
| 202 | 2 | EA | HEADWALL REMOVED |
| 202 | 238 | FT | GUARDRAIL REMOVED, APP |
| 202 | 4 | EA | ANCHOR ASSEMBLY REMOVED, TYPE A |
| 601 | 9 | CY | ROCK CHANNEL PROTECTION, TYPE C WITH FABRIC FILTER |
| 602 | 18.9 | CY | CONCRETE MASONRY |
| 603 | 40 | FT | 38" x 60" CONDUIT, TYPE A, 706.04 |
| 606 | 137.5 | FT | GUARDRAIL, TYPE 5 |
| 606 | 50 | FT | GUARDRAIL, TYPE 5, LONG SPAN |
| 606 | 2 | EA | ANCHOR ASSEMBLY, TYPE T |
| 606 | 2 | EA | ANCHOR ASSEMBLY, TYPE E-98 |
| 626 | 6 | EA | BARRIER REFLECTOR, A2 |

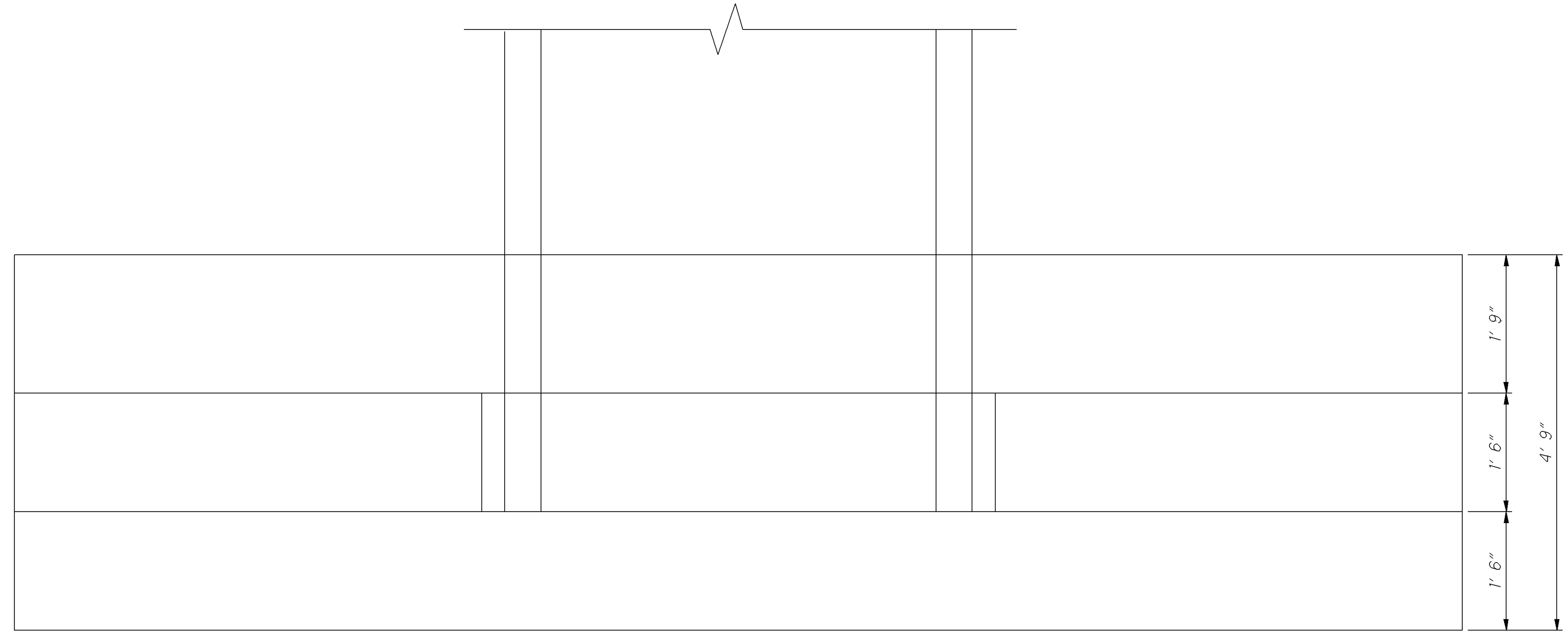


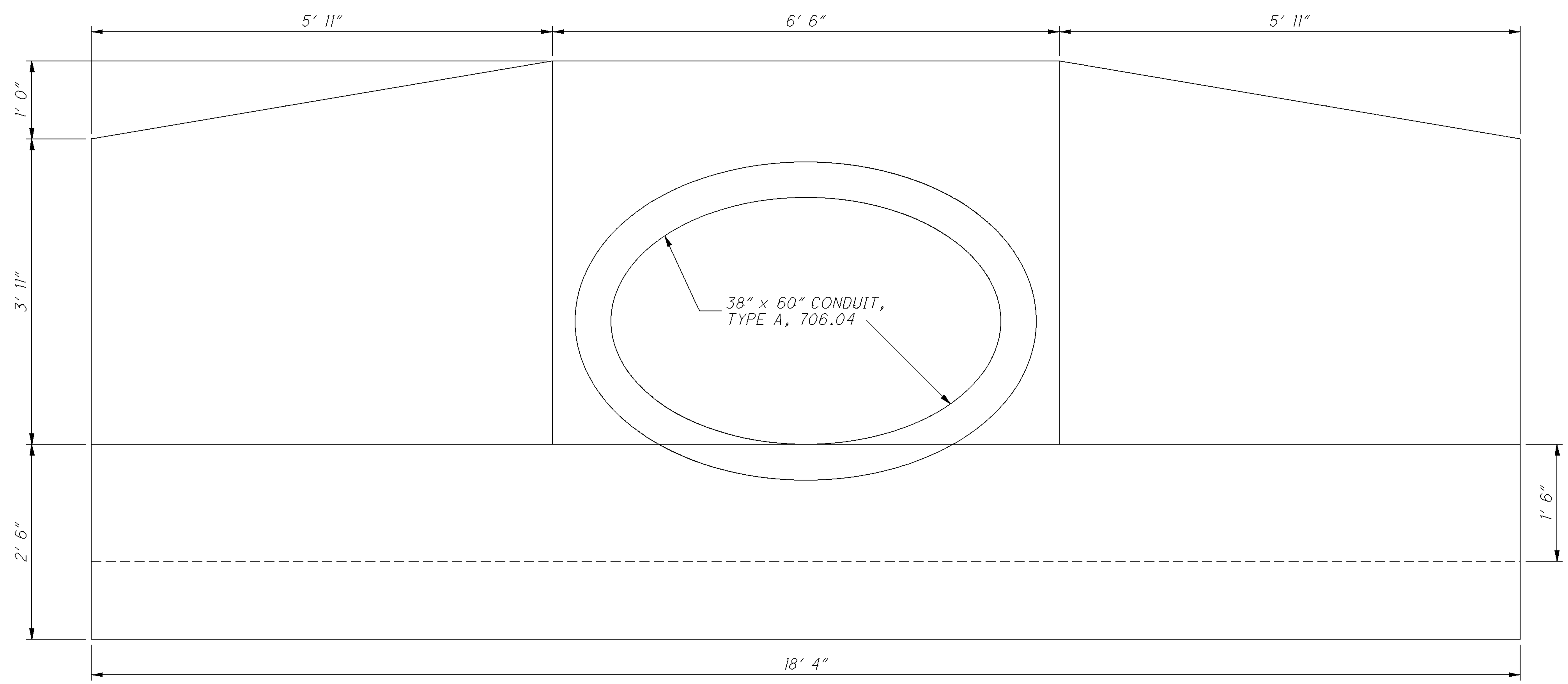






HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED JTW
CHECKED




NOTE: FOLLOW STANDARD DRAWING HW-1.1 DETAILS
EXCEPT AS MODIFIED BELOW.

## EXISTING STRUCTURE

TYPE: 30" CMP

SKEW: 0°55'53" LF

ALIGNMENT: TANGENT

## PROPOSED STRUCTURE

TYPE: 36" TYPE A, 706.02: OR 42" 707.01

SKEW: 0°55'53" LF

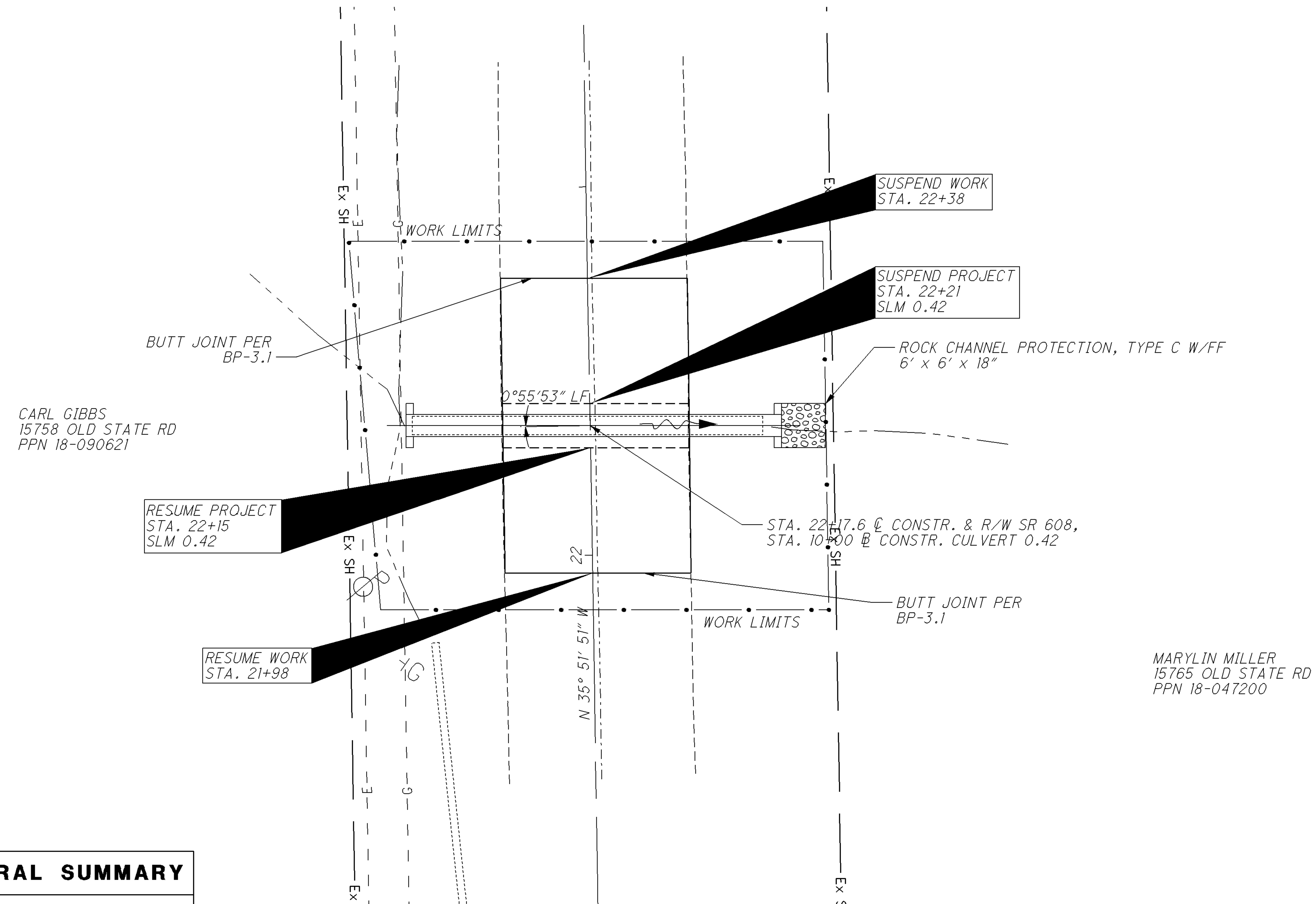
ALIGNMENT: TANGENT

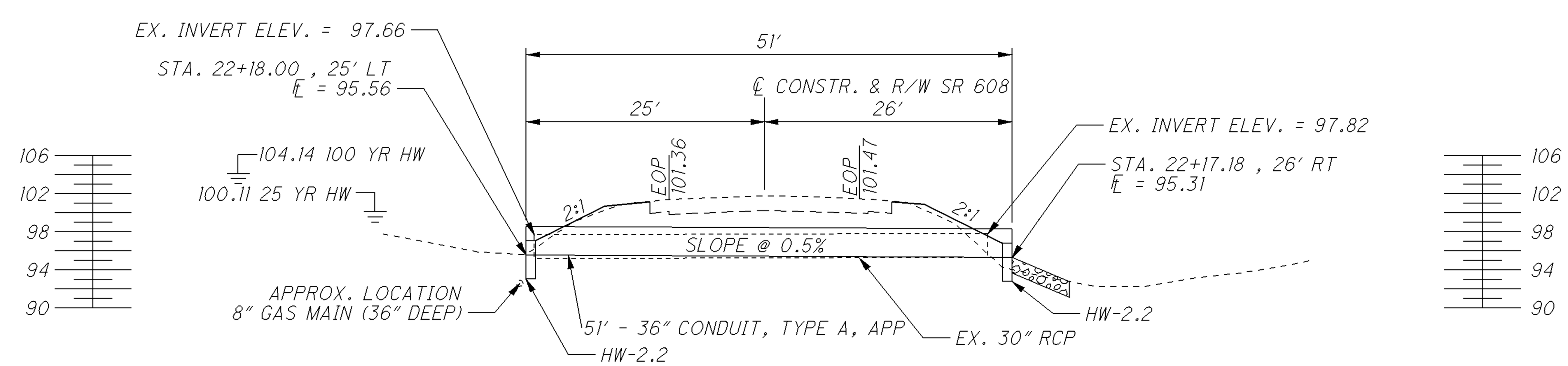
## HYDRAULIC DESIGN DATA

DRAINAGE AREA: 83 ACRES
Q(25): 63 CFS
HW(25): 100.11 FT
V(25): 8.91 FT/S
Q(100): 87.7 CFS
HW(100): 104.14 FT
V(100): 10.95 FT/S

## ESTIMATED QUANTITIES CARRIED TO GENERAL SUMMARY

| ITEM | QUANTITY | UNIT | DESCRIPTION |
|---|---|---|---|
| 202 | 46 | FT | PIPE REMOVED, OVER 24", APP |
| 601 | 2 | CU YD | ROCK CHANNEL PROTECTION, TYPE C WITH FILTER FABRIC |
| 602 | 1.38 | CU YD | CONCRETE MASONRY |
| 603 | 51 | FT | 36" CONDUIT, TYPE A, AS PER PLAN |
| | | | |
| | | | |
| | | | |



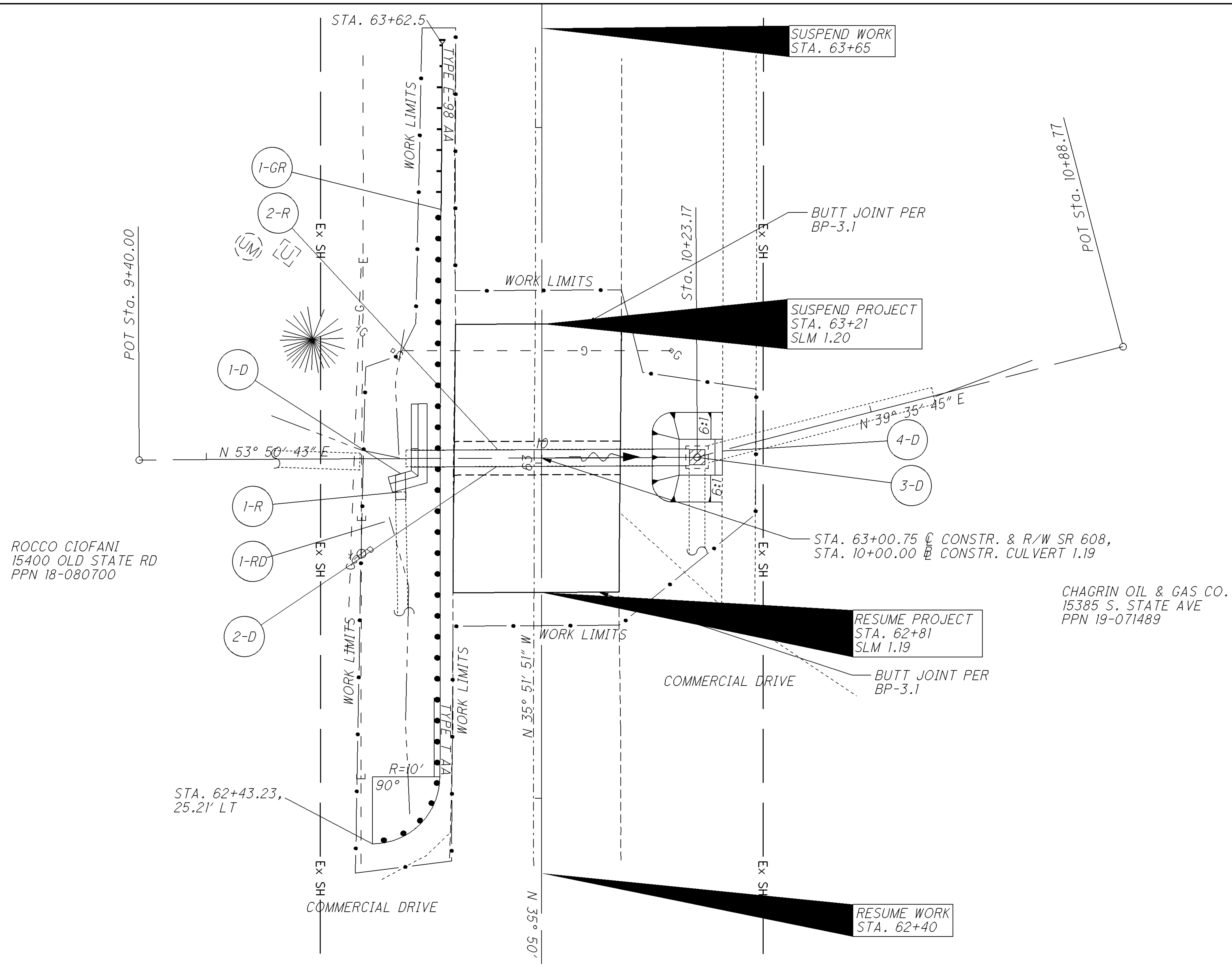



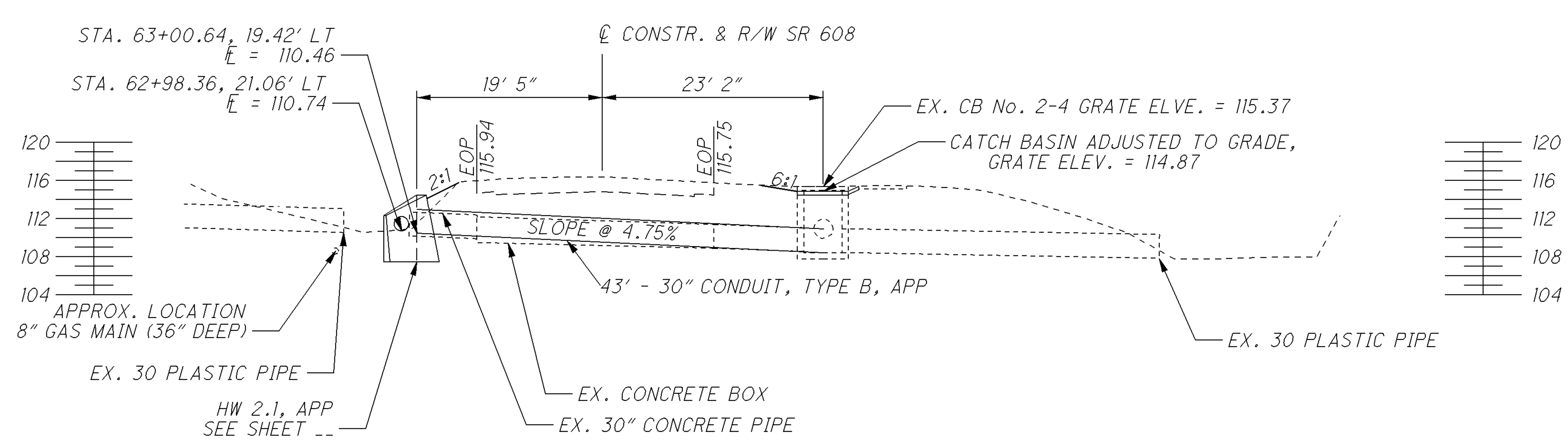

HORIZONTAL SCALE IN FEET

CALCULATED JTW CHECKED

# PLAN AND PROFILE GEA-608-0.42

GEA-168-3.06 AND VARIOUS




| REF NO. | STATION FROM | STATION TO | SIDE | 202 PIPE REMOVED, 24" AND UNDER, APP (FT) | 202 PIPE REMOVED, OVER 24", APP (FT) | 209 LINEAR GRADING (STA.) | 602 CONCRETE MASONRY (CY) | 603 18" CONDUIT, TYPE C, 707.01 (FT) | 603 30" CONDUIT, TYPE B, APP (FT) | 604 CATCH BASIN ADJ. TO GRADE (EA) | 606 GUARD-RAIL, TYPE 5 (FT) | 606 ANCHOR ASSEMBLY, TYPE T (EA) | 606 ANCHOR ASSEMBLY, TYPE E-98 (EA) | 626 BARRIER REFLECTOR, TYPE A (EA) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-R | 62+95 | 62+96 | LT | 1 | | | | | | | | | | |
| 2-R | 63+01 | 63+01 | ℄ | | 43 | 0.25 | | | | | | | | |
| 1-D | 62+95 | 62+99 | LT | | | | | 4 | | | | | | |
| 2-D | 63+01 | 63+01 | ℄ | | | | | | 43 | | | | | |
| 3-D | 63+01 | 63+01 | RT | | | | | | | 1 | | | | |
| 4-D | 63+01 | 63+01 | ℄ | | | | 0.1 | | | | | | | |
| 1-RD | 62+75 | 63+00 | LT | | | 0.25 | | | | | | | | |
| 1-GR | 62+43 | 63+62.5 | LT | | | | | | | | 100 | 1 | 1 | 4 |
| TOTALS CARRIED TO GENERAL SUMMARY | | | | 1 | 43 | 0.25 | 0.1 | 4 | 43 | 1 | 100 | 1 | 1 | 4 |

0 5 10 20
HORIZONTAL SCALE IN FEET

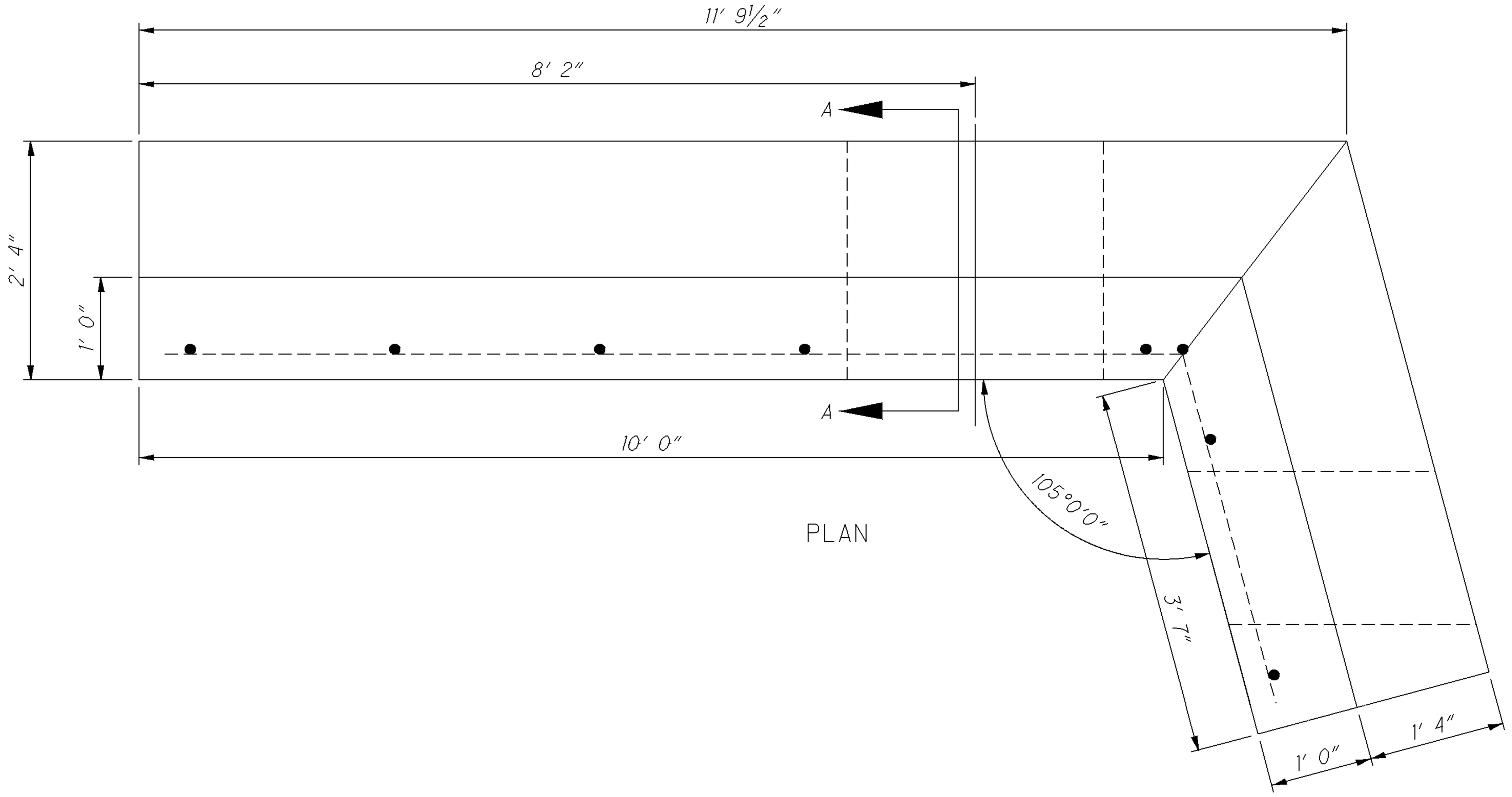
CALCULATED JTW
CHECKED

# PLAN AND PROFILE
## GEA-608-1.19

## GEA-168-3.06 AND VARIOUS



I:\PROJECTS\PID83511\Roadway\SR608_0.42_1.19\Sheets\83511GP002.dgn 09-OCT-2008 2:01PM jwise

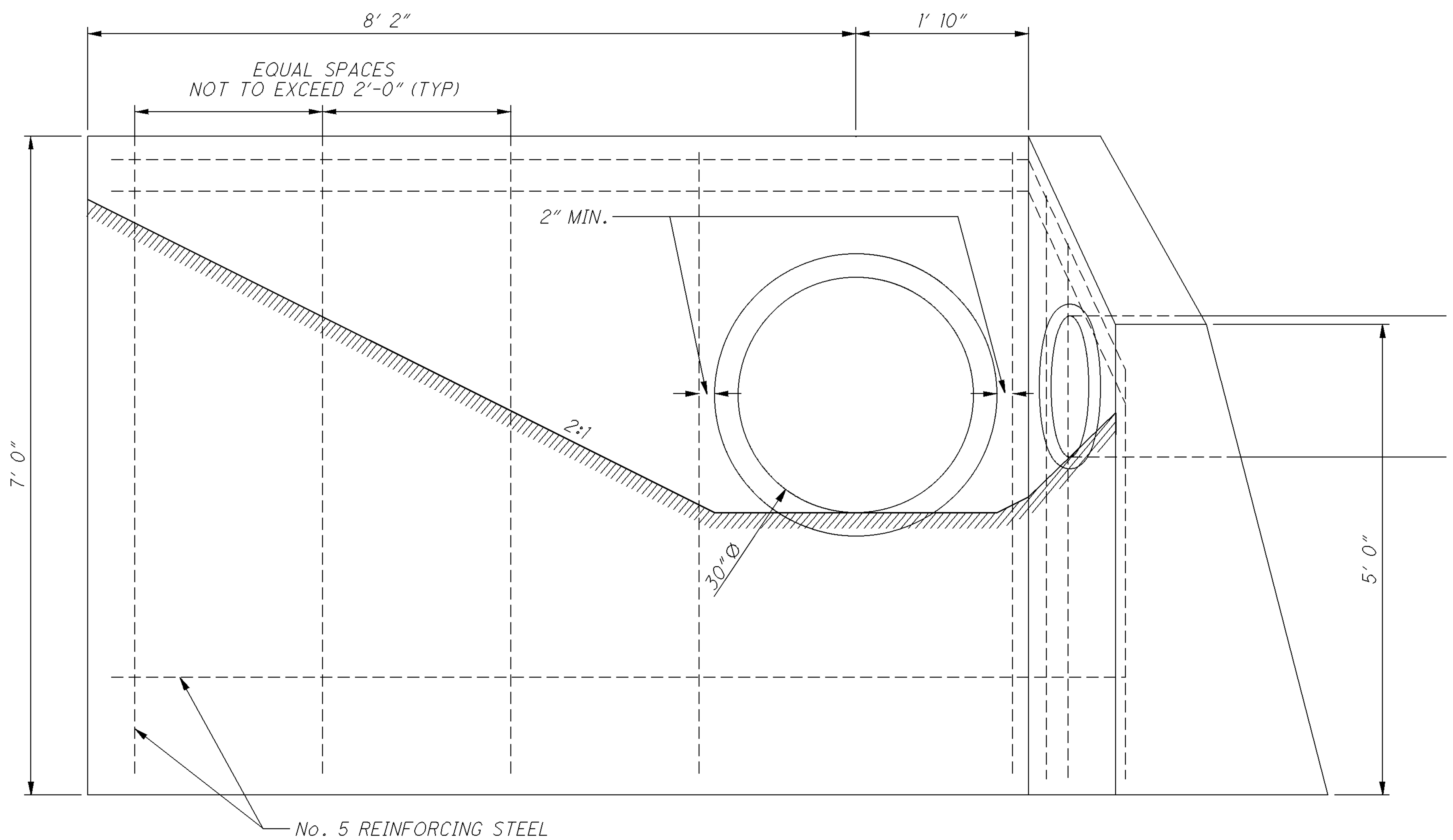



PLAN

ITEM 602 - CONCRETE MASONRY 5.8 CY

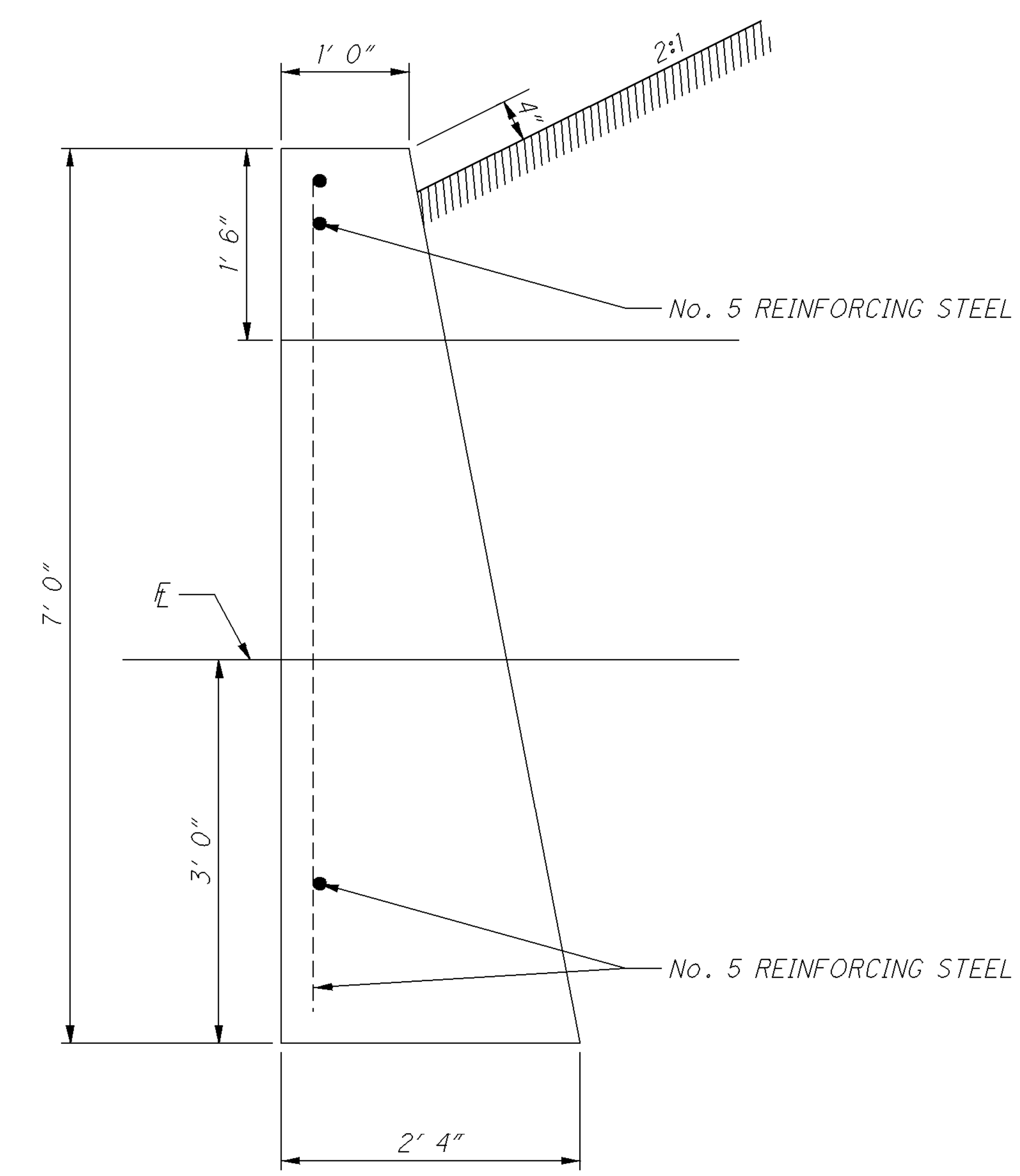
ITEM 509 - EPOXY COATED REINFORCING 95 LB

QUANTITIES CARRIED TO THE GENERAL SUMMARY




ELEVATION

ALL STEEL TO BE EPOXY COATED AS PER 509




SECTION A-A

CALCULATED JTW CHECKED

**HEADWALL DETAILS GEA-608-1.19**

**GEA-168-3.06 AND VARIOUS**



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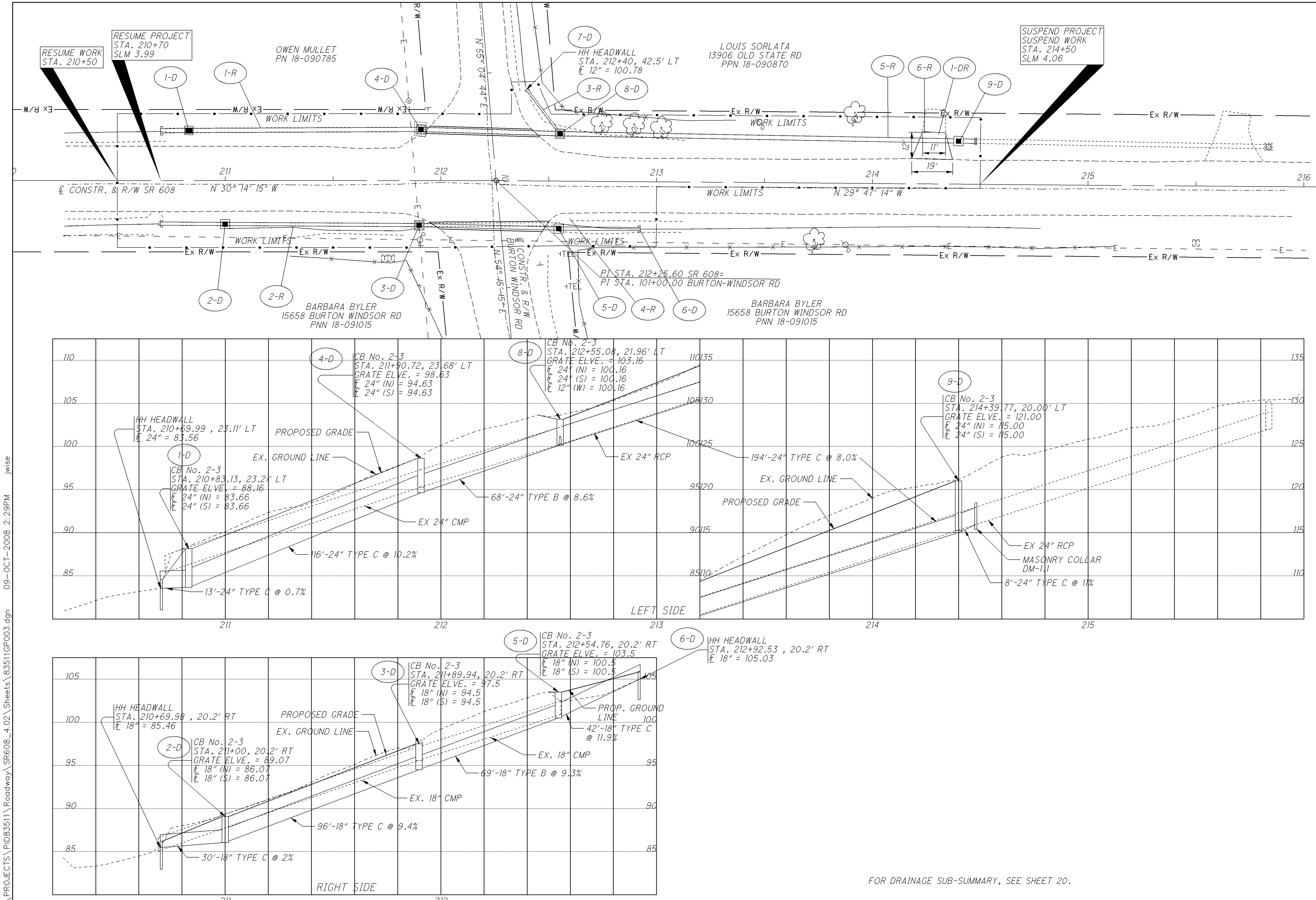



FOR DRAINAGE SUB-SUMMARY, SEE SHEET 20.

0 10 20 40 HORIZONTAL SCALE IN FEET

CALCULATED JTW CHECKED

# PLAN AND PROFILE GEA-608-4.02

# GEA-168-3.06 AND VARIOUS



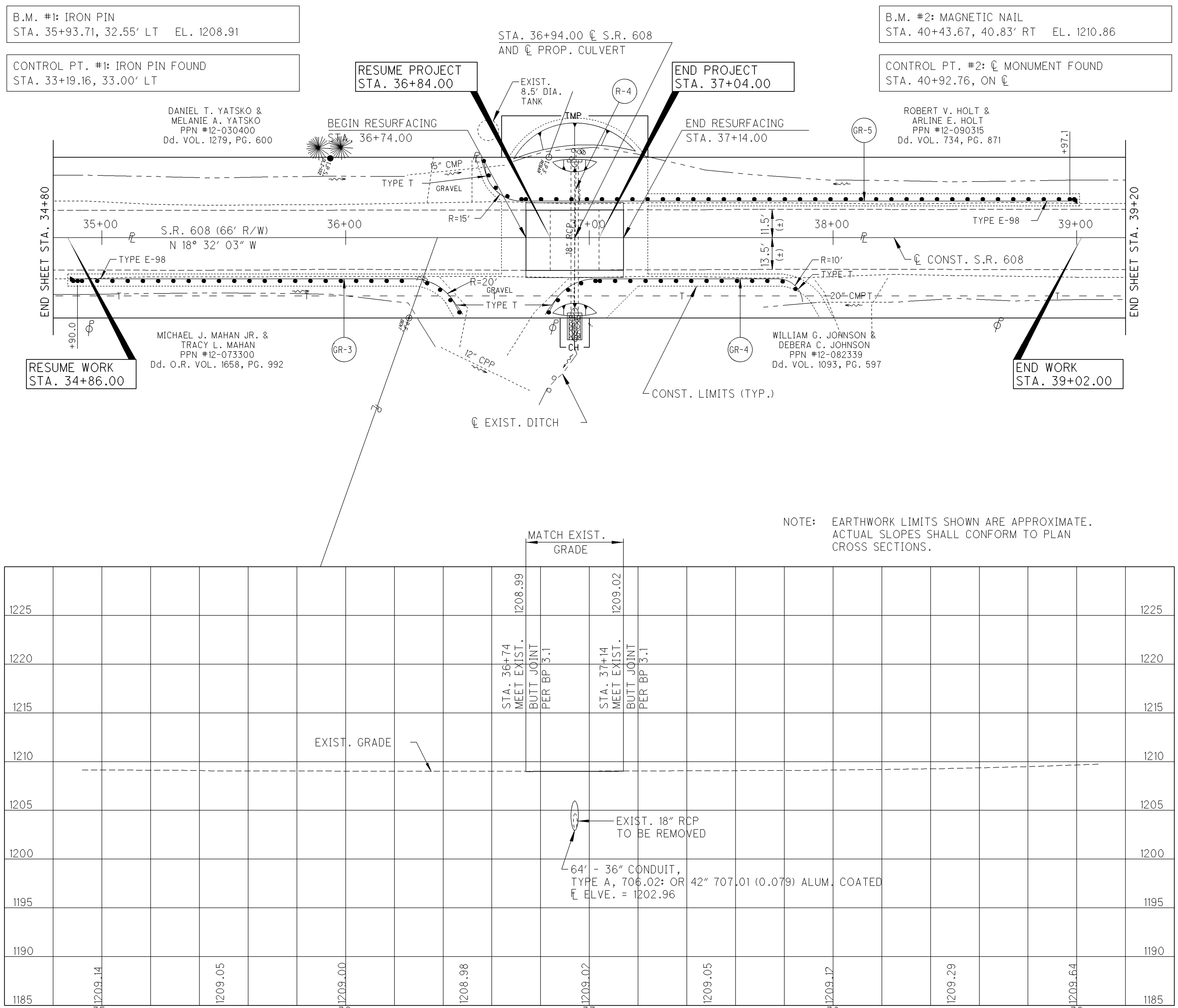
I:\PROJECTS\PID83511\Roadway\SR608_4.02\Sheets\83511GP003.dgn 09-OCT-2008 2:29PM jwise

| REF. NO. | SHEET NO. | STATION TO STATION | | 202 PIPE REMOVED, 24" AND UNDER | 202 CATCH BASIN REMOVED | 202 HEADWALL REMOVED | 202 PAVEMENT REMOVED | 452 6" NON-REINFORCED CONCRETE PAVEMENT | 602 CONCRETE MASONRY | 603 12" CONDUIT, TYPE C | 603 18" CONDUIT, TYPE B | 603 18" CONDUIT, TYPE C | 603 24" CONDUIT, TYPE B | 603 24" CONDUIT, TYPE C | 604 CATCH BASIN, No. 2-3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | FT | EA | EA | SY | FT | CY | FT | FT | FT | FT | FT | EA |
| 1-R | 10 | 210+70 | 212+55 | 67 | 1 | | | | | | | | | | |
| 2-R | 10 | 210+70 | 212+55 | 69 | 1 | | | | | | | | | | |
| 3-R | 10 | 212+39 | 212+55 | 26 | 1 | | | | | | | | | | |
| 4-R | 10 | 212+55 | 212+60 | | | 1 | | | | | | | | | |
| 5-R | 10 | 212+55 | 214+40 | 194 | | | | | | | | | | | |
| 6-R | 10 | 214+18 | 214+37 | | | | 21 | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 1-D | 10 | 210+70 | 210+83 | | | | | | 0.46 | | | | | 13 | 1 |
| 2-D | 10 | 210+70 | 211+00 | | | | | | 0.33 | | | 30 | | | 1 |
| 3-D | 10 | 211+00 | 211+90 | | | | | | | | | 96 | | | 1 |
| 4-D | 10 | 210+83 | 211+91 | | | | | | | | | | | 116 | 1 |
| 5-D | 10 | 211+90 | 212+55 | | | | | | | | 69 | | | | 1 |
| 6-D | 10 | 212+55 | 212+93 | | | | | | 0.33 | | | 42 | | | |
| 7-D | 10 | 212+39 | 212+55 | | | | | | 0.21 | 26 | | | | | |
| 8-D | 10 | 212+55 | 214+40 | | | | | | | | | | 68 | | 1 |
| 9-D | 10 | 212+55 | 214+40 | | | | | | | | | | | 202 | 1 |
| | | | | | | | | | | | | | | | |
| 1-DR | 10 | 214+18 | 214+37 | | | | | 21 | | | | | | | |
| **TOTALS CARRIED TO GENERAL SUMMARY** | | | | 356 | 3 | 1 | 21 | 21 | 1.33 | 26 | 69 | 168 | 68 | 331 | 7 |

CALCULATED JTW
CHECKED

**DRAINAGE SUBSUMMARY GEA-608-4.02**

**GEA-168-3.06 AND VARIOUS**




| REF NO. | STATION FROM | STATION TO | SIDE | 202 PIPE REMOVED, 24″ AND UNDER, APP (FT) | | 606 GUARDRAIL, TYPE 5 (FT) | 603 ANCHOR ASSEMBLY, TYPE T (EACH) | 606 ANCHOR ASSEMBLY, TYPE E-98 (EACH) | | 626 BARRIER REFLECTOR, A2 (EACH) |
|---|---|---|---|---|---|---|---|---|---|---|
| R-4 | 36+94.0 | 36+95.0 | LT&RT | 72 | | | | | | |
| GR-3 | 34+90.0 | 36+47.3 | RT | | | 100.00 | 1 | 1 | | 3 |
| GR-4 | 36+82.7 | 37+97.3 | RT | | | 100.00 | 2 | | | 3 |
| GR-5 | 36+55.9 | 38+97.1 | LT | | | 187.50 | 1 | 1 | | 4 |
| TOTALS CARRIED TO GENERAL SUMMARY | | | | 72 | | 387.5 | 4 | 2 | | 10 |

0 10 20 40
HORIZONTAL SCALE IN FEET

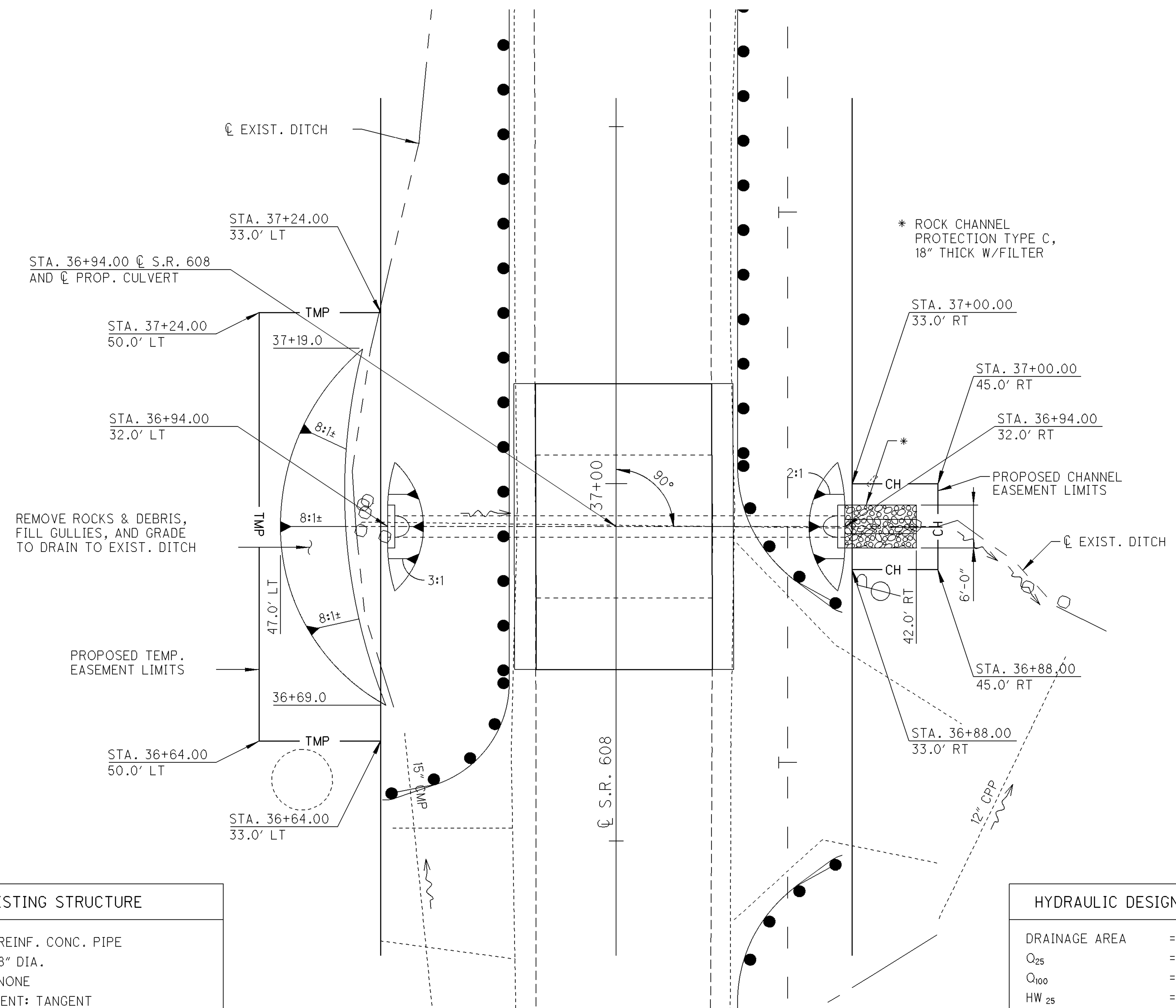
CALCULATED PAT
CHECKED KMR

# PLAN AND PROFILE - GEA-608-8.13
## STA. 34+90 TO STA. 39+10

GEA-168-3.06
AND VARIOUS

| ESTIMATED QUANTITIES | | | | | |
|---|---|---|---|---|---|
| ITEM | ITEM EXT. | TOTAL | UNIT | DESCRIPTION | SHT. NO. |
| 503 | 11100 | LUMP | | COFFERDAMS, CRIBS, AND SHEETING | |
| 601 | 32200 | 3 | CU YD | ROCK CHANNEL PROTECTION, TYPE C WITH FILTER | |
| 602 | 20000 | 1.4 | CU YD | CONCRETE MASONRY | |
| 603 | 16200 | 64 | FT | 36″ CONDUIT, TYPE A, 706.02: OR 42″ 707.01 | |

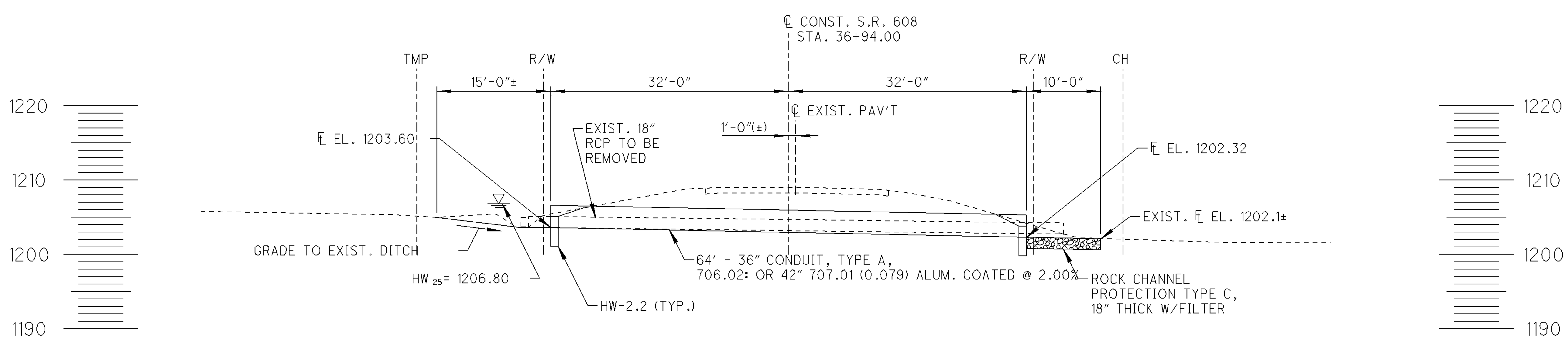
TOTALS ARE CARRIED TO GENERAL SUMMARY




PLAN

| EXISTING STRUCTURE | |
|---|---|
| TYPE: | REINF. CONC. PIPE |
| SIZE: | 18″ DIA. |
| SKEW: | NONE |
| ALIGNMENT: | TANGENT |
| DATE BUILT: | UNKNOWN |
| CONDITION: | POOR |

| HYDRAULIC DESIGN DATA | |
|---|---|
| DRAINAGE AREA | = 23.01 AC. |
| $Q_{25}$ | = 43.0 CFS |
| $Q_{100}$ | = 52.0 CFS |
| $HW_{25}$ | = 1206.80 |
| $HW_{100}$ | = 1207.30 |
| $V_{25}$ | = 13.84 FPS |
| $V_{100}$ | = 14.52 FPS |




PROFILE ALONG ℄ CULVERT

HORIZONTAL SCALE IN FEET (0, 5, 10, 20)

CALCULATED PAT
CHECKED KMR

**CULVERT DETAIL**
**GEA-608-8.13**

**GEA-168-3.06 AND VARIOUS**

# RIGHT OF WAY LEGEND SHEET GEA-608-4.57/8.13

GEAUGA COUNTY
CLARIDON TOWNSHIP
T8N, R7W, SECTION 8, LOT 1
CONNECTICUT WESTERN RESERVE

*UTILITIES*

*LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS, TOGETHER WITH THEIR RESPECTIVE OWNERS:*

*TIME WARNER*
*7757 AUBURN ROAD, SUITE B*
*PAINESVILLE, OHIO 44077*
*ATTN: CHUCK SULLIVAN*
*PHONE: 440-354-0030*

*DOMINION EAST OHIO*
*1201 EAST 55TH STREET*
*CLEVELAND, OHIO 44103*
*ATTN: MIKE ANTONIUS*
*PHONE: (216) 736-6675*
*FAX: (216) 736-6883*

*THE ILLUMINATING CO.*
*6896 MILLER ROAD*
*BRECKSVILLE, OHIO 44141*
*ATTN: FRANK DIBBS*
*PHONE: (440) 546-8748*
*FAX: (440) 546-8775*
*E-MAIL: fgdibbs@firstenergycorp.com*

*AT & T*
*13630 LORAIN AVE. - 4TH FLOOR*
*CLEVELAND, OHIO 44111*
*ATTN: ERIC WESTERBURG*
*PHONE: (216) 476-6142*
*FAX: (216) 573-5792*

*CALL OHIO UTILITIES PROTECTION SERVICE TWO (2) WORKING DAYS BEFORE YOU DIG, TOLL FREE NO. 1-800-362-2764 (NON-MEMBERS MUST BE CALLED DIRECTLY)*

*THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.*

## INDEX OF SHEETS:



*PROJECT DESCRIPTION*

*THE WORK AT THIS LOCATION CONSISTS OF THE REMOVAL OF AN EXISTING CULVERT, CONSTRUCTION OF A NEW CIRCULAR CONCRETE PIPE CULVERT, FULL-DEPTH REMOVAL AND REPLACEMENT OF 20 FEET OF TWO-LANE PAVEMENT, RESURFACING OF 40 FEET OF TWO-LANE PAVEMENT, AND MINOR DITCH GRADING. THE EXISTING ALIGNMENT AND PROFILE OF S.R. 608 ARE MAINTAINED.*

## PROJECT CONTROL

STATE PLANE GRID NONE
PROJECT ADJUSTMENT FACTOR NONE

## STRUCTURE KEY

- RESIDENTIAL
- COMMERCIAL
- OUT-BUILDING

LEGEND:

T = TEMPORARY EASEMENT
CH = CHANNEL EASEMENT

## PLANS PREPARED BY:

FIRM NAME : DLZ OHIO, INC.

PLANS PREPARED BY: RAYLEEN LEE

FIELD REVIEW BY:

DATE COMPLETED:

OWNERSHIP VERIFIED BY: ROBERT BOSWORTH

DATE COMPLETED: 2/05/07

DATE COMPLETED:

## CONVENTIONAL SYMBOLS

County Line
Township Line
Section Line
Corporation Line or
Fence Line (Ex) (Pr)
Center Line
Right of Way (Ex) Ex R/W
Right of Way (Pr) R/W
Standard Highway Ease.(Ex) Ex SH
Temporary Right of Way TMP
Channel Ease. (Pr) CH
Utility Ease. (Ex) Ex U
Railroad or
Guardrail (Ex) (Pr)
Construction Limits
Edge of Pavement (Ex)
Edge of Pavement (Pr)
Edge of Shoulder (Ex)
Edge of Shoulder (Pr)

Ditch / Creek (Ex)
Ditch / Creek (Pr)
Tree Line (Ex)
Ownership Hook Symbol, Example
Property Line Symbol, Example
Break Line Symbol, Example
Tree (Pr), Tree (Ex), Shrub (Ex)
Tree (Remove), Shrub (Remove)
Evergreen (Ex), Stump
Evergreen (Remove), Stump (Remove)
Wetland (Pr), Grass (Pr), Aerial Target
Post (Ex), Mailbox (Ex) MB, Mailbox (Pr) MB
Light (Ex), Telephone Marker (Ex) TEL
Fire Hydrant (Ex), Water Meter (Ex)
Water Valve (Ex), Utility Valve Unknown (Ex.)
Telephone Pole (Ex), Power Pole (Ex)
Light Pole (Ex)

I HEREBY CERTIFY THAT THIS PLAT IS A TRUE DELINEATION OF A SURVEY MADE FOR THE OHIO DEPARTMENT OF TRANSPORTATION IN 2006 BY DLZ OHIO, INC.

THE ESTABLISHMENT OF THE PROPERTY LINES AND EXISTING RIGHT OF WAY LINES SHOWN ON THIS PLAN AS OF THIS DATE WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION.

BY Robert A. Bosworth
SURVEYOR'S NAME

SURVEYOR NO. 7750 DATE 13OCT08

SURVEYORS SEAL

STATE OF OHIO ROBERT A. BOSWORTH S-7750 REGISTERED PROFESSIONAL SURVEYOR

SIGNED: Robert A. Bosworth
DATE: 10-13-08

FEDERAL PROJECT NO. 463300

PID NO. 80543

CALCULATED RKL CHECKED RAB

RIGHT OF WAY LEGEND SHEET

GEA-608-4.57/8.13

1/5

23/27

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# GEA-608-4.57/8.13

GEAUGA COUNTY
CLARIDON TOWNSHIP
T8N, R7W, SECTION 8, LOT 1
CONNECTICUT WESTERN RESERVE

THE PROPOSED RIGHT OF WAY SHALL BE REFERENCED FROM THE CENTERLINE OF EXISTING RIGHT OF WAY.

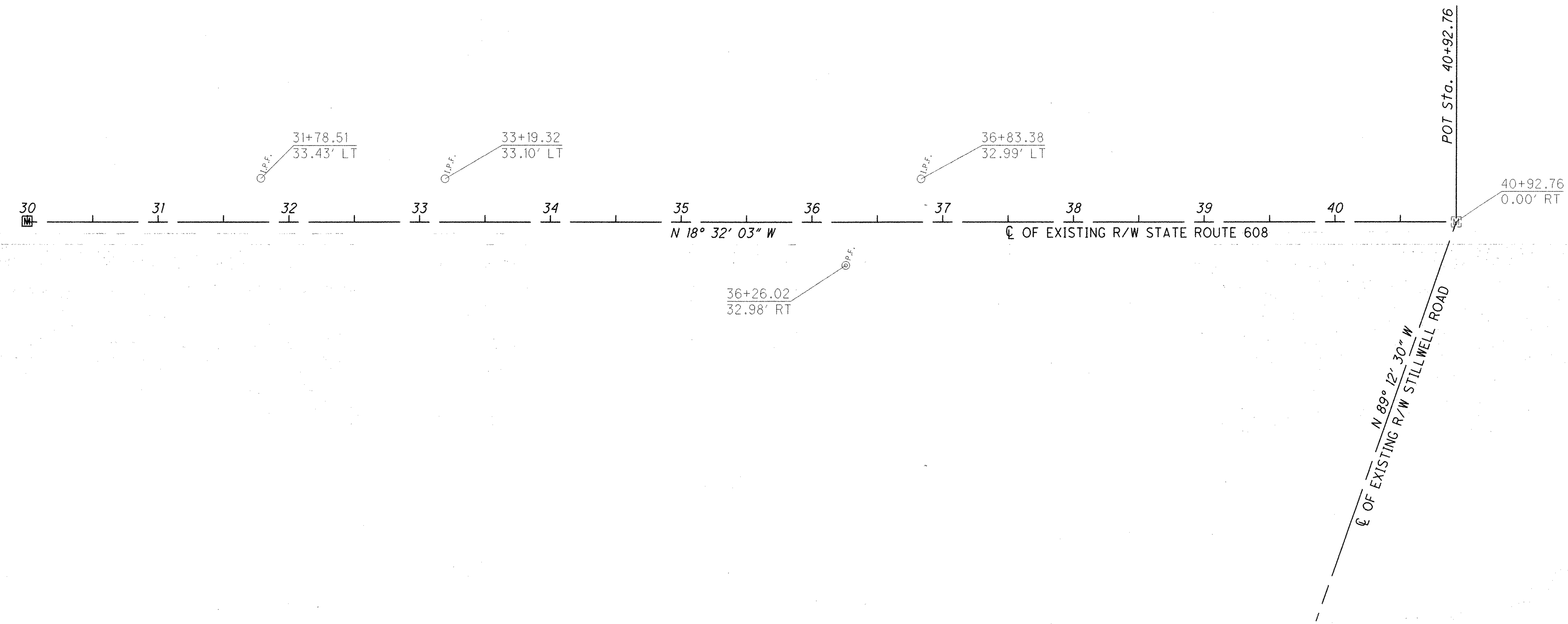
THE PLACING OF MONUMENTS SHALL BE UNDER THE DIRECTION OF A SURVEYOR REGISTERED IN THE STATE OF OHIO. THE CENTERLINE MONUMENT ASSEMBLY BOX(S) WILL BE INSTALLED BY THE HIGHWAY CONTRACTOR AT THE TIME OF CONSTRUCTION. THE IRON PIN WITH CAP MARKING THE ACTUAL CENTERLINE STATION POINT AND ANY REFERENCE MONUMENTS ARE TO BE SET BY THE RIGHT OF WAY DESIGN CONSULTANT.

CHANGES OR ALTERATIONS TO THE LOCATION OF ANY MONUMENTS SHOWN ON THIS PLAT, REQUIRES PRIOR APPROVAL OF THE DISTRICT REAL ESTATE ADMINISTRATOR OF THE OHIO DEPARTMENT OF TRANSPORTATION. A REVISED CENTERLINE PLAT WITH THE NEW LOCATIONS SHALL BE RECORDED IN THE APPLICABLE COUNTY RECORDS AND THE OHIO DEPARTMENT OF TRANSPORTATION. SPECIFICATIONS FOR CENTERLINE MONUMENTS, REFERENCE MONUMENTS AND RIGHT OF WAY MONUMENTS ARE SHOWN ON STANDARD CONSTRUCTION DRAWING RM-1.1 OF THE OHIO DEPARTMENT OF TRANSPORTATION.

**BASIS FOR BEARINGS:**

ALL BEARINGS SHOWN ARE FOR PROJECT USE ONLY.

NOTE: THE EXISTING CENTERLINE OF R/W AND R/W WIDTH AND LOCATION WERE DETERMINED USING DEEDS AS STATED IN THE SUMMARY AND A SURVEY BY JERRY W. DANIEL, P.S. 6222, DATED OCTOBER 1996 AND APPROVED BY THE GEAUGA COUNTY ENGINEER'S OFFICE DECEMBER 13, 1996.




**MONUMENT LEGEND**

- EXISTING R/W MONUMENT BOX
- PROPOSED R/W MONUMENT BOX
- EXISTING CONCRETE MONUMENT
- PROPOSED CONCRETE MONUMENT
- RAILROAD SPIKE FOUND
- RAILROAD SPIKE SET
- I.P.F. IRON PIN FOUND
- I.P.F. IRON PIN FOUND W/ ID CAP
- I.P.S. IRON PIN SET W/ ID CAP
- P.F. IRON PIPE FOUND
- P.S. IRON PIPE SET
- P.K.F. P.K. NAIL FOUND
- P.K.S. P.K. NAIL SET

| MOUMENTS TO BE SET DURING CONSTRUCTION | |
|---|---|
| ℄ of RIGHT OF WAY | ADJUSTABLE ℄ MONUMENTS |
| S.R. 608 | ITEM 604E 38500 |
| STA. 30+00.00 | 1 |
| | |
| TOTAL TO GENERAL SUMMARY | 1 |

I HEREBY CERTIFY THAT THIS PLAT IS A TRUE DELINEATION OF A SURVEY MADE FOR THE OHIO DEPARTMENT OF TRANSPORTATION IN 2006 BY DLZ OHIO, INC.

THE ESTABLISHMENT OF THE PROPERTY LINES AND EXISTING RIGHT OF WAY LINES SHOWN ON THIS PLAN AS OF THIS DATE WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION.

BY Robert A. Bosworth
SURVEYOR'S NAME

SURVEYOR NO. 7750 DATE 13 OCT 08

SURVEYORS SEAL

STATE OF OHIO ROBERT A. BOSWORTH S-7750 REGISTERED PROFESSIONAL SURVEYOR

SIGNED: Robert A. Bosworth
DATE: 10-13-08

RECEIVED ____________, 20____
RECORDED ____________, 20____
BOOK ____________ PAGE ______
COUNTY RECORDER

S:\Dept\Survey\Proj\0422\1004\12\row\sheets\80543RC001.dgn 10/13/2008 2:13:47 PM rlee

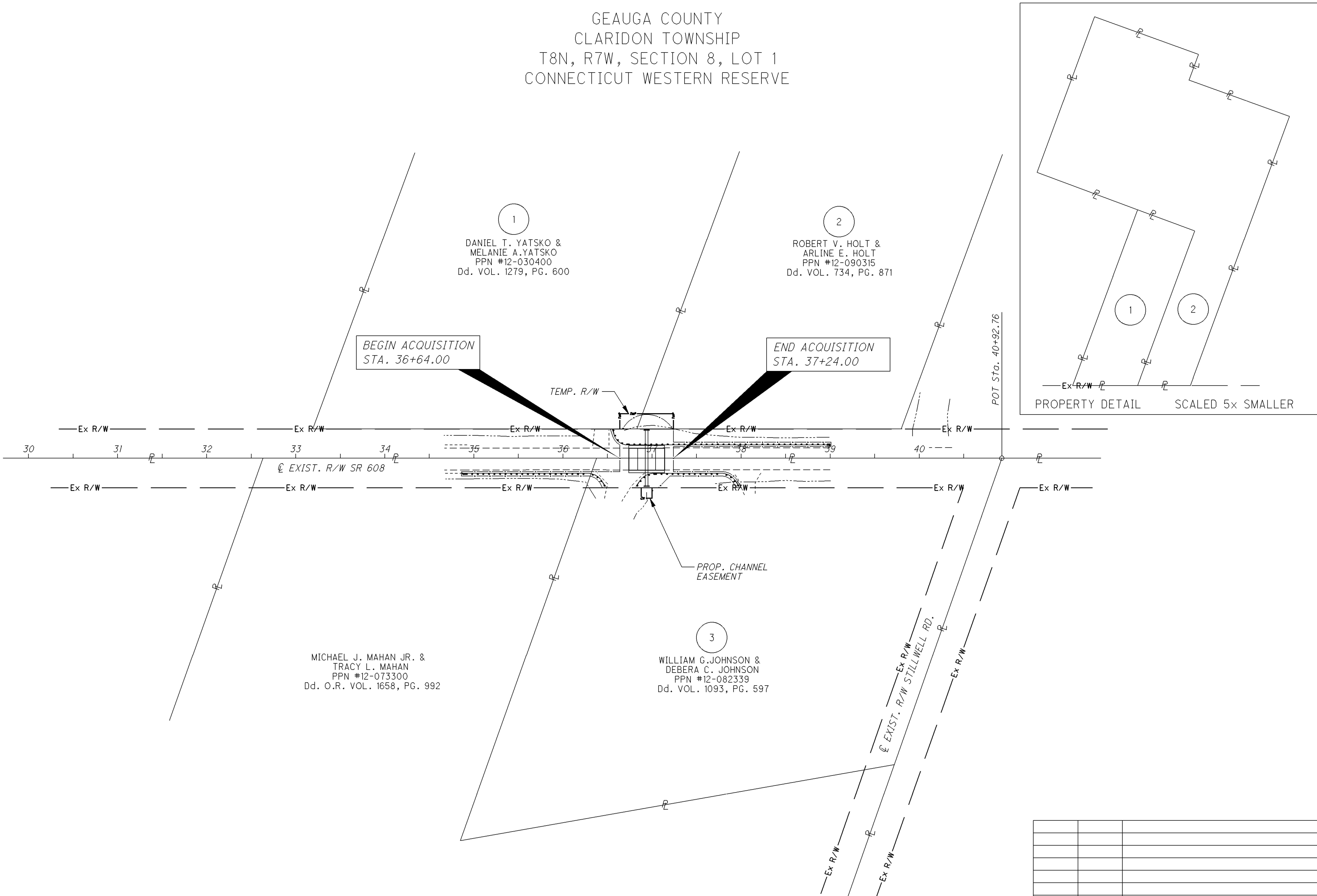
HORIZONTAL SCALE IN FEET 0 25 50 100

PID NO. 80543

R/W DESIGNER RKL
R/W REVIEWER RAB

**CENTERLINE PLAT**

**GEA-608-4.57/8.13**




| REV. BY | DATE | DESCRIPTION |
|---|---|---|
| | | |

DATE COMPLETED

PID NO. **80543**

R/W DESIGNER RKL
R/W REVIEWER RAB

**PROPERTY MAP**

**GEA-608-4.57/8.13**

3/5



$DATE$ $TIME$ $FILE$ P:\PROJECTS\PID83511\Roadway\SR608_8.13\83511RW001.dgn 09-OCT-2008 9:19AM jwise

**TOTAL NUMBER OF :**

3 OWNERSHIPS
3 PARCELS
0 TOTAL TAKES

0 OWNERSHIPS WITH STRUCTURES INVOLVED
0 OWNERSHIPS WITH "P" ITEMS

NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE

**ALL AREAS IN ACRES**

**GRANTEE:**

ALL RIGHT OF WAY ACQUIRED IN THE NAME OF STATE OF OHIO UNLESS OTHERWISE SHOWN.

| PARCEL NO. | OWNER | SHEET NO. | OWNERS RECORD | | AUDITOR'S PARCEL | RECORD AREA | TOTAL P.R.O. | GROSS TAKE | P.R.O. IN TAKE | NET TAKE | STRUC-TURE | NET RESIDUE | | TYPE FUND | REMARKS AND PERSONALTY | AS ACQUIRED | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | BOOK | PAGE | | (AUDITOR) | | | | | | LEFT | RIGHT | STATE | | BOOK | PAGE |
| 1T | DANIEL T. YATSKO & MELANIE A. YATSKO | 5 | DV 1279 | 600 | 12-030400 | 7.750 | 0.000 | 0.009 | 0.000 | 0.009 | NO | | | | TO PERFORM GRADING | | |
| 2T | ROBERT V. HOLT & ARLINE E. HOLT | 5 | DV 734 | 871 | 12-090315 | 29.720 | 0.000 | 0.015 | 0.000 | 0.015 | NO | | | | TO PERFORM GRADING | | |
| 3CH | WILLIAM G. JOHNSON & DEBERA C. JOHNSON | 5 | DV 1093 | 597 | 12-082339 | 4.050 | 0.574 | 0.003 | 0.000 | 0.003 | NO | | | | | | |

NOTE: UNDER NO CIRCUMSTANCES ARE TEMPORARY EASEMENTS TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

LEGEND:

T = TEMPORARY EASEMENT
CH = CHANNEL EASEMENT

* CALCULATED AREA

NOTE: ALL TEMPORARY PARCELS TO BE OF 24 MONTH DURATION.

| REV. BY | DATE | DESCRIPTION |
|---|---|---|
| FIELD REVIEW BY | | DATE: |
| OWNERSHIP VERIFIED BY | | DATE: |
| DATE COMPLETED | | |

$DATE$
$TIME$
$FILE$

FEDERAL PROJECT NO. **463300**

PID NO. **80543**

STATE JOB NO. **463300**

R/W DESIGNER RKL

R/W REVIEWER RAB

**SUMMARY OF ADDITIONAL RIGHT OF WAY**

**GEA-608-4.57/8.13**

4/5


GEAUGA COUNTY
CLARIDON TOWNSHIP
T8N, R7W, SECTION 8, LOT 1
CONNECTICUT WESTERN RESERVE
AGRICULTURAL
1
DANIEL T. YATSKO &
MELANIE A.YATSKO
12122 OLD STATE RD.
CHARDON, OH 44024
PPN #12-030400
Dd. VOL. 1279, PG. 600
AGRICULTURAL
2
ROBERT V. HOLT &
ARLINE E. HOLT
0 OLD STATE RD.
CHARDON, OH 44024
PPN #12-090315
Dd. VOL. 734, PG. 871
RESIDENTIAL
3
WILLIAM G.JOHNSON &
DEBERA C. JOHNSON
14611 STILLWELL RD.
CHARDON, OH 44024
PPN #12-082339
Dd. VOL. 1093, PG. 597
MICHAEL J. MAHAN JR. &
TRACY L. MAHAN
PPN #12-073300
Dd. O.R. VOL. 1658, PG. 992
36+89.45
50.00'LT
S 88° 14' 31" E
18.12'
N 18° 32' 03" W
25.45'
36+64.00
50.00'LT
S 71° 27' 57" W
17.00'
36+64.00
33.00'LT
N 18° 32' 03" W
34.55'
37+24.00
50.00'LT
N 71° 27' 57" E
17.00'
37+24.00
33.00'LT
N 71° 27' 57" E
12.00'
36+83.17
33.00'LT
S 18° 32' 03" E
40.83'
N 18° 32' 03" W
12.00'
(66'R/W)
℄ EXIST. R/W SR 608
(OLD STATE RD.)
N18°32'03"W
POT Sta. 40+92.76
37+00.00
33.00'RT
36+88.00
33.00'RT
N 71° 27' 57" E
12.00'
S 71° 27' 57" W
12.00'
36+88.00
45.00'RT
37+00.00
45.00'RT
℄ EXIST. DITCH
S 18° 32' 03" E
12.00'
STA. 36+94.00 ℄ S.R. 608
AND ℄ PROP. CULVERT
1-T
2-T
3-CH
TMP
CH
15"CMP
20"CMP
12"CPP
GRAVEL DRIVE
CONSTR. LIMITS
Ex R/W
END SHEET STA. 34+80
35
36
37
38
39
40
BEGIN WORK
STA. 34+86.00
BEGIN PROJECT
STA. 36+84.00
END PROJECT
STA. 37+04.00
END WORK
STA. 39+02.00
(60' R/W)
℄ EXIST. R/W STILLWELL RD.
N89°12'30"W
HORIZONTAL SCALE IN FEET
0
10
20
40
PID NO.
80543
R/W DESIGNER
RKL
R/W REVIEWER
RAB
RIGHT OF WAY PLAN
GEA-608-4.57/8.13
5/5
27
27
REV. BY
DATE
DESCRIPTION
DATE COMPLETED
jwise
09-OCT-2008 9:18AM
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