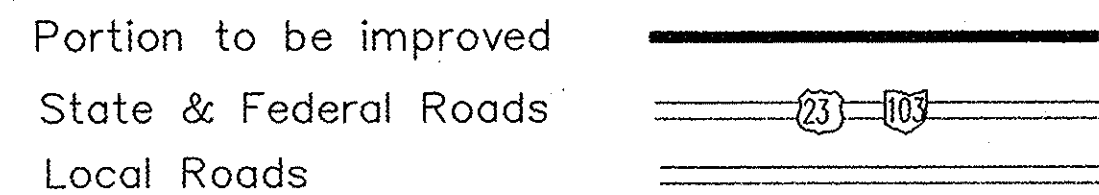


# STATE OF OHIO DEPARTMENT OF TRANSPORTATION WYA-CAREY STREETScape PHASE 1 VILLAGE OF CAREY WYANDOT COUNTY



**LOCATION MAP**

SCALE 1" = 900'  
LATITUDE 40°57'9" N LONGITUDE 83°22'57" W

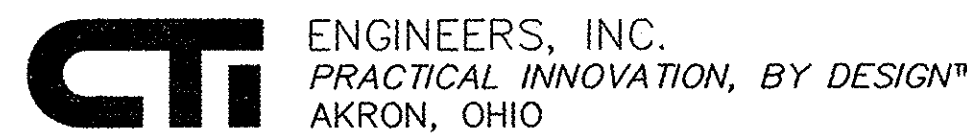


### DESIGN DESIGNATION

	FINDLAY	VANCE
OPENING YEAR (2008) ADT.	7190	5600
DESIGN YEAR (2028) ADT.	8570	6670
DESIGN HOURLY VOLUME (2008)	857	667
DIRECTIONAL DISTRIBUTION	55%	55%
T <sub>24</sub>	8%	24%
T <sub>D</sub>	5%	15%
DESIGN SPEED	30 MPH	30 MPH
LEGAL SPEED	25 MPH	25 MPH
FUNCTIONAL CLASSIFICATION	URBAN ARTERIAL	URBAN ARTERIAL
DESIGN EXCEPTIONS	NONE REQUIRED	

**UNDERGROUND UTILITIES**  
2 WORKING DAYS  
**BEFORE YOU DIG**  
1-800-362-2764  
OHIO UTILITIES PROTECTION SERVICE  
NON-MEMBERS MUST BE CALLED DIRECTLY  
1-800-925-0988  
OIL & GAS PRODUCERS  
UNDERGROUND PROTECTION SERVICE

PLANS PREPARED BY



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### PROJECT DESCRIPTION

IMPROVEMENT OF 0.26 MILES OF FINDLAY STREET (S.R. 103, S.R. 199, S.R. 568) AND 0.02 MILES OF VANCE STREET (U.S. 23, S.R. 103), INCLUDING STREETScape, EXPANDED SIDEWALKS, NEW CURBS, WATERMANS, STORM SEWER, STORM CULVERT, RESURFACING, BURIED ELECTRIC LINES, STREET LIGHTS, TRAFFIC SIGNALS, PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNS.

### EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED	0.27 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.36 ACRE
NOTICE OF INTENT EARTH DISTURBED AREA:	N/A
	(NOI NOT REQUIRED)

### 2008 SPECIFICATIONS

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

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON SHEET 12 OF 87 FOR FINDLAY ST. CULVERT REPLACEMENT ONLY. FOR ALL OTHER CONSTRUCTION, PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

*[Signature]*  
APPROVED BY: VILLAGE ADMINISTRATOR      DATE: 4-29-08

*[Signature]*  
APPROVED BY: DISTRICT DEPUTY DIRECTOR      DATE: 5-9-08

*[Signature]*  
APPROVED BY: DIRECTOR, DEPARTMENT OF TRANSPORTATION      DATE: 5-27-08

STANDARD CONSTRUCTION DRAWINGS						SUPPLEMENTAL SPECIFICATIONS
DRAWING No.	DATE	DRAWING No.	DATE	DRAWING No.	DATE	
BP-3.1	7-16-04	HL-40.20	1-19-07	TC-16.20	1-19-07	800-2008 4-18-08
BP-4.1	7-16-04	HL-60.11	1-19-07	TC-21.20	1-19-07	802 4-15-05
BP-5.1	7-28-00	HL-60.12	10-19-07	TC-22.10	1-19-01	815 1-19-07
BP-7.1	1-19-07	HL-60.31	1-19-07	TC-41.41	1-19-01	832 4-25-06
CB-1.1	7-15-05	MH-1.2	1-20-06	TC-81.20	1-16-04	872 4-21-06
CB-2.1	7-15-05	MT-97.10 M	9-5-06			906 1-19-07
CB-2.2	7-15-05	MT-97.11 M	9-5-06	TC-82.10	4-19-02	
HL-10.12	1-19-07	MT-105.10 M	10-18-02	TC-83.10	1-19-07	SPECIAL PROVISIONS
HL-20.11	1-19-07	MT-105.11 M	10-18-02	TC-83.20	1-19-07	
HL-30.11	1-21-05			TC-85.10	4-19-02	NWP#3 11-13-07
HL-30.21	1-19-07	RM-1.1	4-21-06	TC-85.20	5-01-00	
HL-30.22	1-21-05	RM-4.2	10-20-06			

<b>ENGINEERS SEAL :</b>  SIGNED: <i>[Signature]</i> DATE: 4/25/08	<b>ELECTRICAL ENGINEERS SEAL :</b>  SIGNED: <i>[Signature]</i> DATE: 4/25/08	<b>TRAFFIC ENGINEERS SEAL :</b>  SIGNED: <i>[Signature]</i> DATE: 4/28/08
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FEDERAL PROJECT NO.  
**E060 (095)**

PID NO.  
**80760**

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT  
**NONE**

**WYA-CAREY STREETScape**

1  
87

WYA - LR-CAREY STREETScape, PH  
 080496 PID - 80760  
 Dist 1 8/6/2008  
 Z:\E06014 CAREY VIP FINAL\01 TITLE.dwg 4/25/08 1:41pm dkovacs

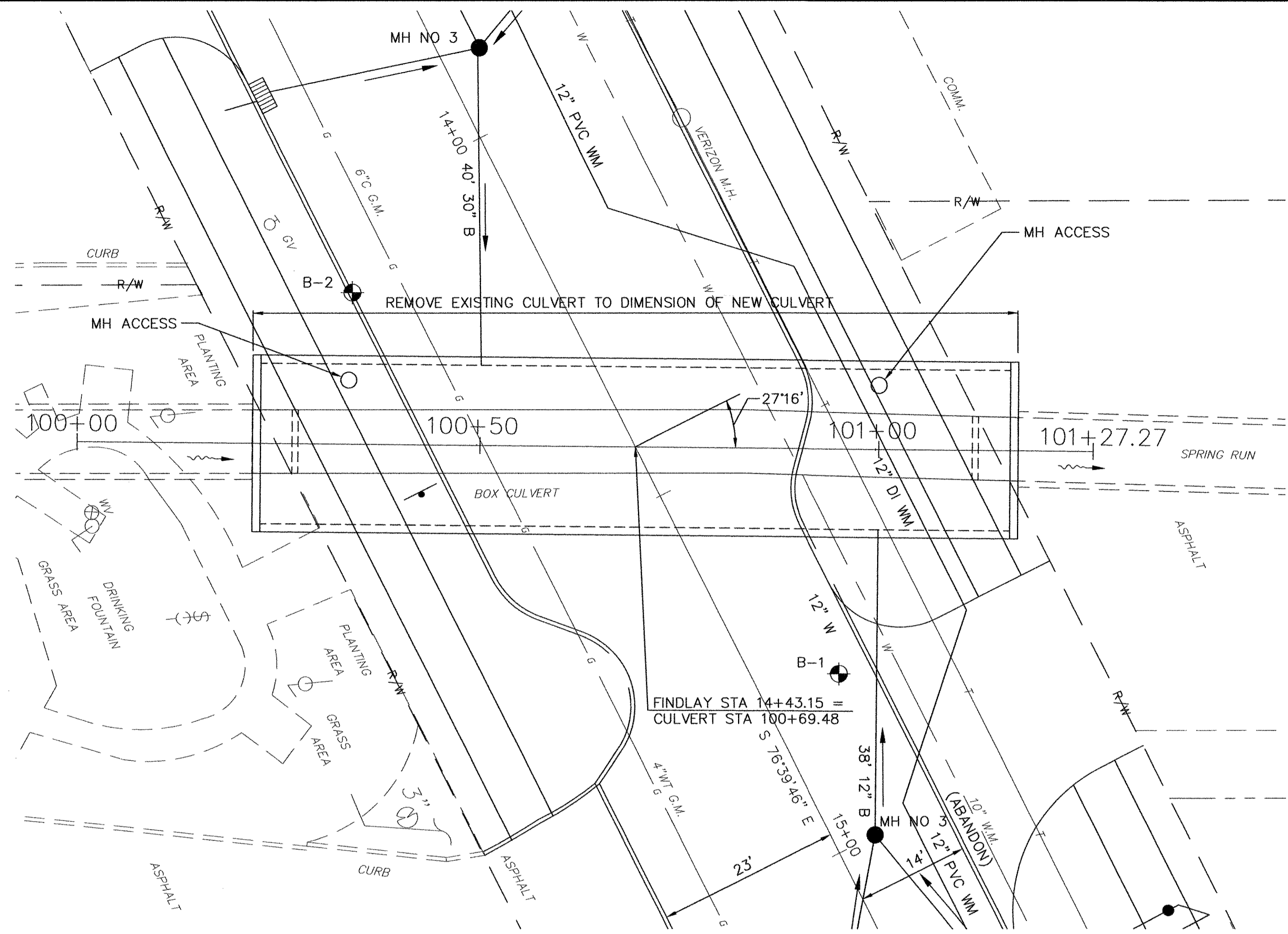
BENCHMARK :  
TOP OF CATCH BASIN IN CAREY PARK  
STA. 14+00±, 79.94' RT  
EL.=820.82



CALCULATED  
CHECKED

**FINDLAY STREET CULVERT SITE PLAN PHASE 1  
OVER SPRING RUN**

**WYA-CAREY  
STREETSCAPE**



**TRAFFIC DATA**

OPENING YEAR A.D.T. (2008) = 7,190  
DESIGN YEAR A.D.T. (2028) = 8,570  
TRUCK (24 HOUR B&C) = 8%

**HYDRAULIC DATA**

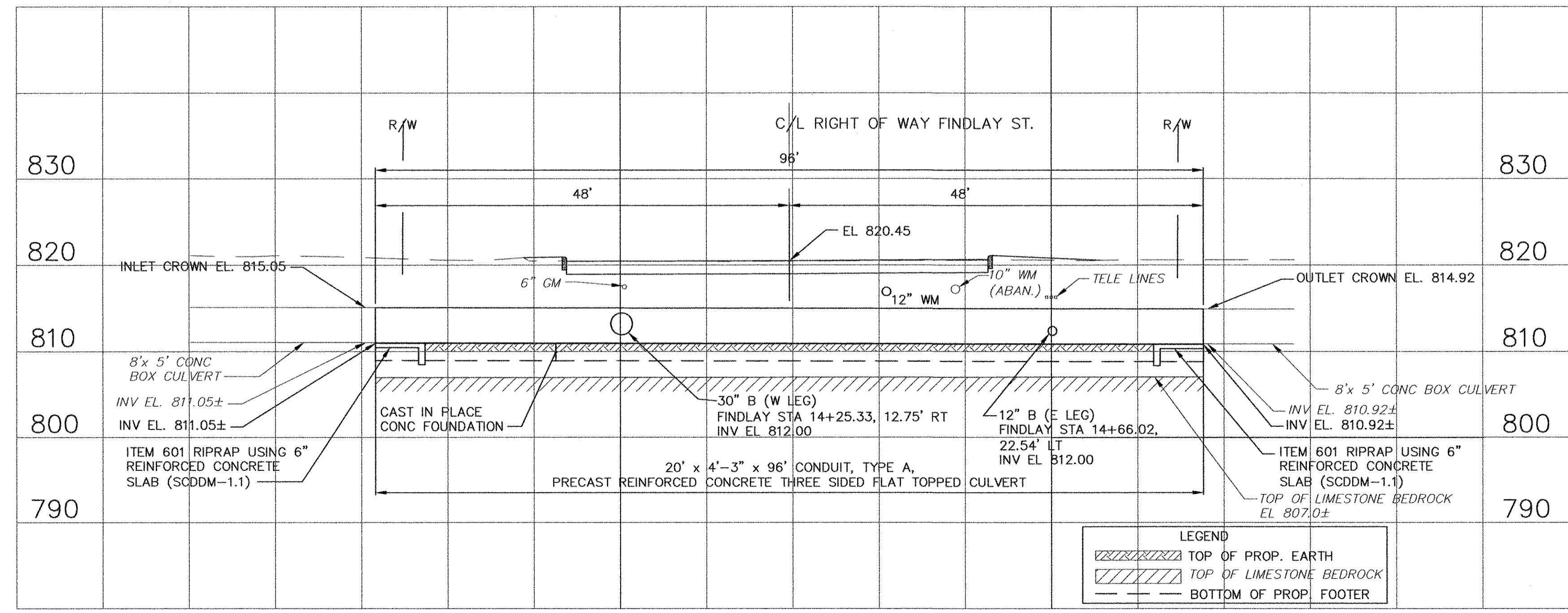
DRAINAGE AREA = 5.63 SQ MI  
EXISTING WATERWAY OPENING 40 S.F.  
PROPOSED WATERWAY OPENING 92 S.F.  
25 YEAR Q = 449 C.F.S. 100 YEAR Q = 561 C.F.S.  
V = 8.9 FT./SEC. V = 9.4 FT./SEC.  
HW = 815.55 HW = 816.3  
HW25 IS 4.45 FEET BELOW EDGE OF PAVEMENT.

**EXISTING STRUCTURE**

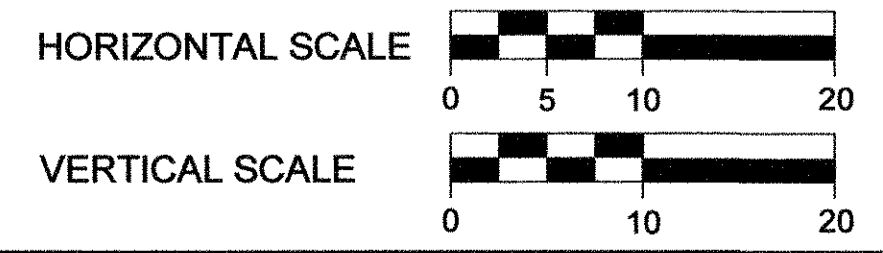
TYPE: 8' SPAN x 5' RISE REINFORCED CONCRETE BOX CULVERT  
ROADWAY: 61.22' F/F CURBS  
ALIGNMENT: TANGENT  
SKEW: 27'16" R.F.  
LOADING: UNKNOWN  
APPROACH SLABS: NONE  
WEARING COURSE: ASPHALT CONCRETE  
STRUCTURE FILE NUMBER: NA

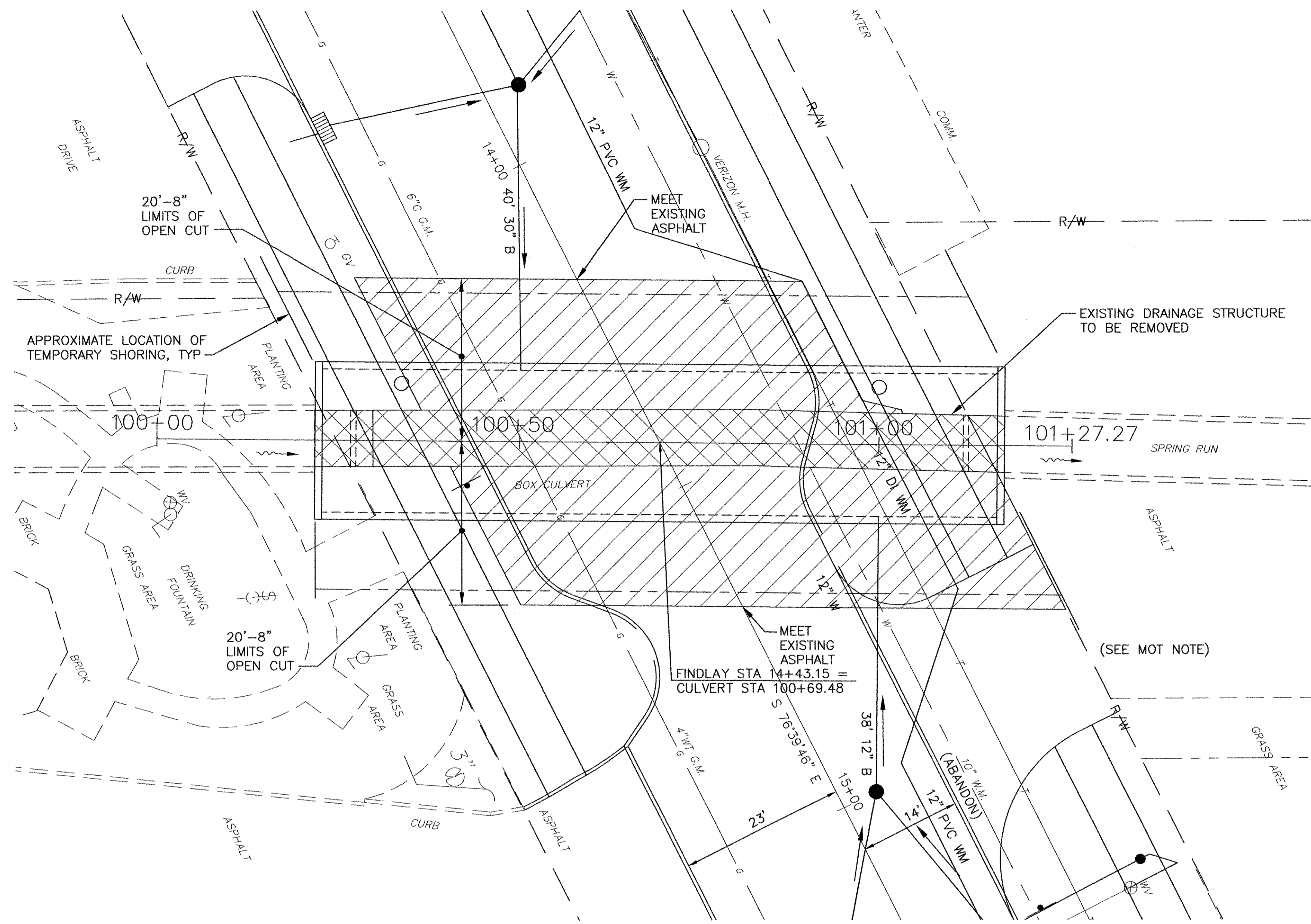
**PROPOSED STRUCTURE**

TYPE: 20' SPAN x 4'-3" RISE TYPE A, PRECAST  
REINFORCED CONCRETE THREE SIDED FLAT TOPPED CULVERT (4.6' EFFECTIVE RISE)  
ROADWAY: 46.29' F/F CURBS  
ALIGNMENT: TANGENT  
SKEW: 27'16" L.F.  
LOADING: HS 25 AND ALT MILITARY  
APPROACH SLABS: NONE  
WEARING COURSE: ASPHALT CONCRETE  
LATITUDE: N40°57'08" LONGITUDE: W83°22'50"




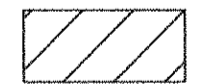
PROJECT DATA	
TOTAL AREA (RIGHT-OF-WAY)	3.42 AC
PROJECT EARTH DISTURBING ACTIVITIES	0.27 AC
ESTIMATING CONTRACTORS EARTH DISTURBED AREA	0.38 AC
NOI EARTH DISTURBED AREA	N/A
RUNOFF COEFFICIENT FOR PRE-CONSTRUCTION SITE	0.9
RUNOFF COEFFICIENT FOR POST CONSTRUCTION SITE	0.9
IMPERVIOUS AERA, PRE-CONSTR.	3.20 AC.
IMPERVIOUS AREA, POST-CONSTR.	3.33 AC.
SOIL & WATER CONSERVATION MAP	6 & 7
U.S.G.S. 7.5 QUAD. MAP	CAREY
SUBSEQUENT RECEIVING WATERS	SANDUSKY RIVER



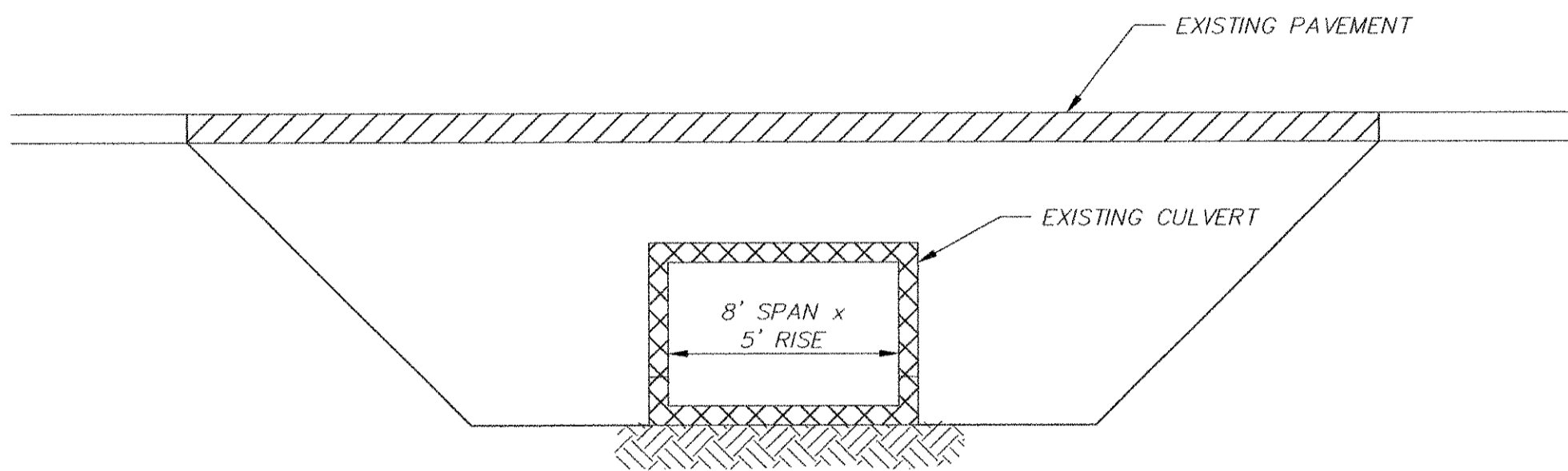


PLAN

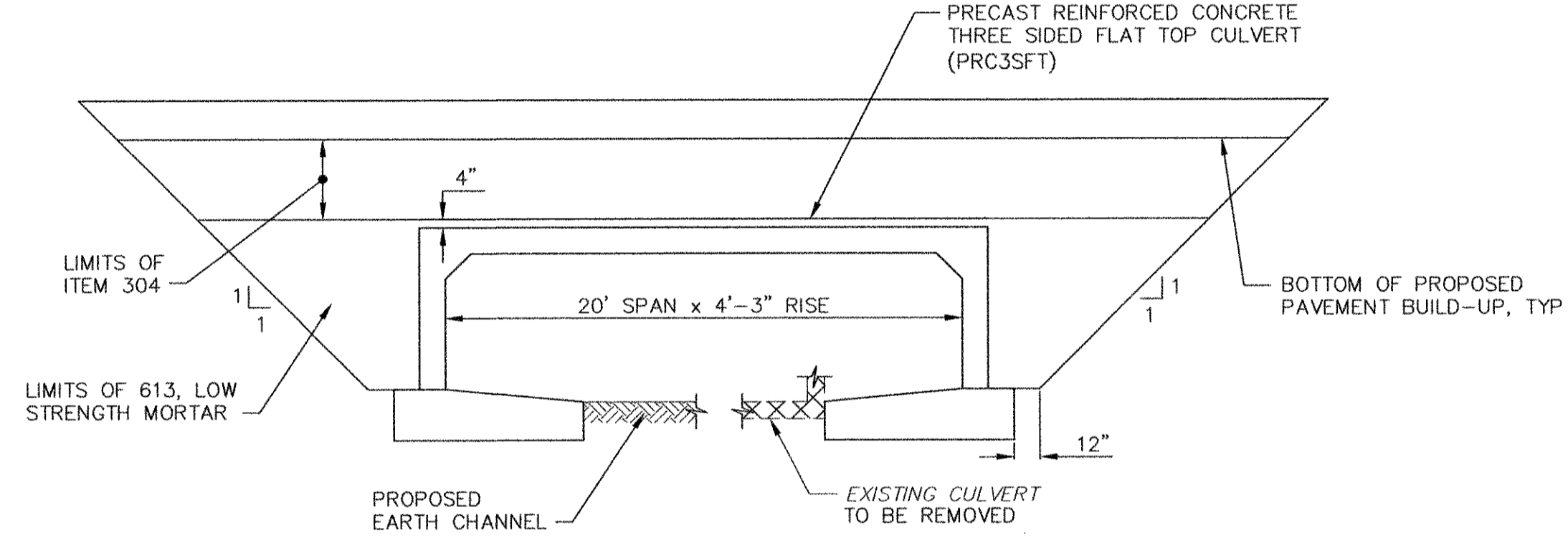
LEGEND

-  PORTION OF EXISTING DRAINAGE STRUCTURE TO BE REMOVED
-  EXISTING PAVEMENT TO BE REMOVED

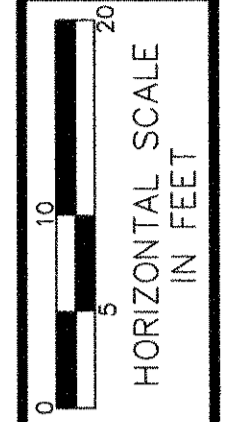
**MOT NOTE:**  
 THE DRIVEWAY AT STA. 14+91.99 MAY BE CLOSED FOR CONSTRUCTION OF THE CULVERT. ACCESS TO THE PARKING LOT IS AVAILABLE FROM NORTH STREET.



EXISTING STRUCTURE SECTION (N.T.S.)



PROPOSED STRUCTURE SECTION (N.T.S.)



CALCULATED  
 CHECKED

**FINDLAY STREET CULVERT PHASE 1  
 DEMOLITION PLAN**

**WYA-CAREY  
 STREETSCAPE**

GENERAL NOTES

DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2005, INCLUDING THE INTERIM SPECIFICATIONS THROUGH 2005 AND THE ODOT BRIDGE DESIGN MANUAL.

DESIGN LOADING:

HS25 AND THE ALTERNATE MILITARY LOADING.  
FWS = 60 PSF

DESIGN STRESSES:

CAST-IN-PLACE STRUCTURES  
CONCRETE CLASS S -  $f_c = 4,500$  psi FLAT-TOPPED THREE SIDED CULVERT SECTION  
CONCRETE CLASS C -  $f_c = 4,000$  psi FOOTING  
REINFORCING STEEL - ASTM A615, A616, OR A617  
 $F_y = 60,000$  psi.

PRECAST STRUCTURES: FOR PRECAST REINFORCED CONCRETE FLAT-TOPPED THREE SIDED CULVERTS, SEE CMS SECTION 603.

PORTIONS OF STRUCTURE REMOVED, AS PER PLAN:

WHEN NO LONGER NEEDED TO MAINTAIN TRAFFIC, THE EXISTING STRUCTURE SHALL BE REMOVED UPON RECEIVING PERMISSION FROM THE ENGINEER.

THE CONTRACTOR SHALL SAW CUT AND CAREFULLY REMOVE ONLY AS MUCH OF THE EXISTING 8'X5' BOX CULVERT AS IS NECESSARY TO INSTALL THE PROPOSED STRUCTURE.

UTILITY LINES:

ALL EXPENSES INVOLVED IN RELOCATING (INSTALLING) THE AFFECTED UTILITY LINES SHALL BE BORNE BY THE OWNER(S). THE CONTRACTOR AND OWNER(S) ARE REQUESTED TO COOPERATE BY ARRANGING THEIR WORK IN SUCH A MANNER THAT INCONVENIENCE TO EITHER WILL BE HELD TO A MINIMUM. THE WATER LINE WORK IS PART OF THIS PROJECT

UNCLASSIFIED EXCAVATION:

EXCAVATION LIMITS FOR THE PROPOSED STRUCTURE SHALL BE AS DEFINED IN 503.11. EXCAVATION OUTSIDE THESE LIMITS NECESSARY TO REMOVE THE EXISTING STRUCTURE SHALL BE INCLUDED IN 503 FOR PAYMENT.

THREE-SIDED CULVERT WALL AND TOP SLAB THICKNESS:

THE WALL AND TOP SLAB THICKNESS SHOWN ON THE PLANS WERE OBTAINED FROM THE MANUFACTURERS AT THE TIME THE PLANS WERE PREPARED. IF THE WALL AND/OR TOP SLAB THICKNESS OF THE CULVERT PROPOSED ARE DIFFERENT FROM WHAT IS SHOWN ON THE PLANS, A MARKED COPY OF THE PROJECT PLANS, INCLUDING ALL PLAN NOTES AND DETAILS SHOWING ALL ITEMS AFFECTED BY THE DIFFERENT CULVERT DIMENSIONS, SHALL BE SUBMITTED TO THE PROJECT ENGINEER, AND CONCURRENTLY TO THE OFFICE OF STRUCTURAL ENGINEERING, FOR APPROVAL WITH THE SHOP DRAWINGS. ALL WORK REQUIRED TO ACCOMMODATE ANY REVISED DIMENSIONS SHALL BE AT NO EXTRA COST TO THE STATE.

ITEM 503 - COFFERDAMS, CRIBS AND SHEETING, AS PER PLAN

TO PROTECT THE STRUCTURAL INTEGRITY OF THE EXISTING ADJACENT PROPERTIES DURING CONSTRUCTION, THE CONTRACTOR SHALL INSTALL SHORING ALONG THE WORK LIMITS IN EACH QUADRANT OF THE EXISTING CULVERT. THE SHORING SHALL BE INSTALLED PRIOR TO THE START OF EXCAVATION AND REMOVAL OF THE EXISTING CULVERT. THE DESIGN OF THE SHORING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, BE DESIGNED AND STAMPED AND SIGNED BY A REGISTERED PROFESSIONAL ENGINEER, AND CONFORM TO 501.05. THE CONTRACTOR'S SHORING DESIGN AND METHOD OF INSTALLATION SHALL NOT DISTURB THE EXISTING ADJACENT PROPERTIES IN ANY WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGES TO THE EXISTING PROPERTIES AS A RESULT OF HIS OPERATIONS. THE STATE AND/OR VILLAGE ASSUME NO RESPONSIBILITY FOR DAMAGES TO PUBLIC OR PRIVATE PROPERTY DUE TO THE WORK PERFORMED BY THE CONTRACTOR.

THE CONTRACTOR SHALL SUBMIT FIVE COPIES OF HIS SHORING DESIGN PLANS TO THE PROJECT ENGINEER AND CONCURRENTLY, ONE COPY TO THE OFFICE OF STRUCTURAL ENGINEERING, FOR REVIEW AND APPROVAL. CONSTRUCTION OF THE SHORING SHALL NOT BEGIN UNTIL AFTER WRITTEN APPROVAL HAS BEEN RECEIVED FROM THE PROJECT ENGINEER.

PORTIONS OF THE SHORING COMPOSED OF STEEL OR CONCRETE MAY BE LEFT IN PLACE AT THE DIRECTION OF THE ENGINEER. PORTIONS COMPOSED OF OTHER MATERIALS SHALL BE REMOVED PRIOR TO COMPLETION OF THE WORK.

ALL MATERIALS, EQUIPMENT, LABOR AND INCIDENTALS NECESSARY TO DESIGN, INSTALL AND SUBSEQUENTLY REMOVE THE SHORING SHALL BE INCLUDED FOR PAYMENT IN THE LUMP SUM PRICE BID FOR ITEM 503 - COFFERDAMS, CRIBS AND SHEETING, AS PER PLAN.

ITEM 511 CLASS C CONCRETE, AS PER PLAN

IN ADDITION TO THE SPECIFICATIONS SHOWN FOR ITEM 511 IN THE CMS, THIS ITEM SHALL INCLUDE ANY AND ALL EXCAVATION AND EMBANKMENT NEEDED TO CONSTRUCT THE ENDWALLS. THE EXCAVATION AND EMBANKMENT SHALL FOLLOW THE SPECIFICATIONS OUTLINED IN THE CMS FOR ITEM 203 EXCAVATION AND EMBANKMENT.

PAYMENT WILL BE AT THE CONTRACT BID PRICE PER CUBIC YARD FOR ITEM 511, CLASS C CONCRETE, AS PER PLAN. THE FOLLOWING ESTIMATED QUANTITY FOR THIS ITEM HAS BEEN INCLUDED IN THE STRUCTURE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

ITEM 511 CLASS C CONCRETE, AS PER PLAN - 147 CU YD

FOUNDATION BEARING PRESSURE:

CULVERT FOOTINGS, AS DESIGNED PRODUCE A MAXIMUM BEARING PRESSURE OF 2800 LBS PER SQUARE FEET. THE ALLOWABLE MAXIMUM BEARING PRESSURE IS 3000 LBS PER SQUARE FOOT.

ITEM 511 CLASS C CONCRETE, FOOTING, AS PER PLAN

IN ADDITION TO THE SPECIFICATIONS SHOWN FOR ITEM 511 IN THE CMS, THIS ITEM SHALL INCLUDE ANY AND ALL EXCAVATION AND EMBANKMENT NEEDED TO CONSTRUCT THE FOOTINGS. THE EXCAVATION AND EMBANKMENT SHALL FOLLOW THE SPECIFICATIONS OUTLINED IN THE CMS FOR ITEM 203 EXCAVATION AND EMBANKMENT.

PAYMENT WILL BE AT THE CONTRACT BID PRICE PER CUBIC YARD FOR ITEM 511, CLASS C CONCRETE, FOOTING, AS PER PLAN. THE FOLLOWING ESTIMATED QUANTITY FOR THIS ITEM HAS BEEN INCLUDED IN THE STRUCTURE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

ITEM 511 CLASS C CONCRETE, FOOTING, AS PER PLAN - 114 CU YD

ITEM 512 TYPE 2 WATERPROOFING

TYPE 2 WATERPROOFING SHALL BE APPLIED TO THE TOP SURFACE OF THE PRECAST CULVERT SECTIONS AND SHALL EXTEND DOWN ALL SIDES FOR THE PORTIONS OF THE CULVERT WHICH SHALL BE IN CONTACT WITH THE BACKFILL AS SHOWN ON SHEET 47. THE EXTERIOR JOINT GAP ON THE TOP AND SIDES BETWEEN THE PRECAST CULVERT SECTIONS SHALL BE FILLED WITH PORTLAND CEMENT MORTAR PRIOR TO INSTALLING THE TYPE 2 WATERPROOFING. JOINT WRAP AS SPECIFIED IN 603.06 & 603.07 AND CONCRETE SEALING AS SPECIFIED IN 603.06 ARE NOT REQUIRED UNDER THE LIMITS OF THE TYPE 2 WATERPROOFING.

PAYMENT FOR THE TYPE 2 WATERPROOFING SHALL BE AT THE CONTRACT PRICE BID PER SQ. YD. FOR ITEM 512 - TYPE 2 WATERPROOFING.

ITEM 512 TYPE 2 WATERPROOFING - 373 SQ YD

ITEM 603 CONDUIT, TYPE A, PRECAST REINFORCED CONCRETE THREE SIDED FLAT TOPPED CULVERT (20'-0" SPAN X 4'-3" RISE), AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF SECTION 603 OF THE SPECIFICATIONS, THE FOLLOWING REQUIREMENTS SHALL ALSO APPLY: STRAPS TO ATTACH THE CONCRETE ENDWALLS SHALL BE FURNISHED AND INSTALLED, AS SHOWN ON THE CULVERT DETAILS.

THIS ITEM SHALL INCLUDE MATERIALS, EQUIPMENT AND LABOR TO CONSTRUCT THE PORTIONS OF THE MANHOLES BELOW THE TOP OF THE CULVERT, AS SHOWN ON THE PLANS.

PAYMENT WILL BE AT THE CONTRACT BID PRICE PER CUBIC YARD FOR ITEM 603 CONDUIT, TYPE A, PRECAST REINFORCED CONCRETE THREE SIDED FLAT TOPPED CULVERT (20'-0" SPAN X 4'-3" RISE), AS PER PLAN. THE FOLLOWING ESTIMATED QUANTITY FOR THIS ITEM HAS BEEN INCLUDED IN THE STRUCTURE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

ITEM 603 CONDUIT, TYPE A, PRECAST REINFORCED CONCRETE THREE SIDED FLAT TOPPED CULVERT (20'-0" X 4'-3" RISE), AS PER PLAN - 96 LF

DEMOLITION DEBRIS

THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID AND/OR LIMIT DEMOLITION DEBRIS FROM ENTERING THE STREAM. ANY MATERIAL THAT DOES FALL INTO THE STREAM SHALL BE REMOVED AS SOON AS POSSIBLE.

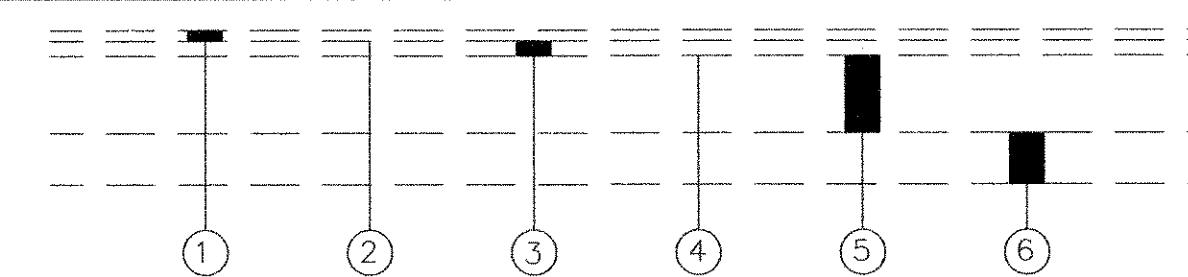
CONDUIT FABRICATION AND APPROVAL

PRIOR TO CLOSING THE ROADWAY TO TRAFFIC, THE CONTRACTOR SHALL HAVE THE ITEM 603 TYPE A CONDUIT SPECIFIED IN THESE PLANS FABRICATED AND APPROVED. ALL COSTS ASSOCIATED WITH THESE REQUIREMENTS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE PERTINENT CONDUIT.

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION
202	LUMP		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
202	289	SY	PAVEMENT REMOVED
301	58	CY	ASPHALT CONCRETE BASE, PG 64-22
304	200	CY	AGGREGATE BASE
407	18	GAL	TACK COAT
407	9	GAL	TACK COAT FOR INTERMEDIATE COURSE
448	11	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG 64-22
448	8	CY	ASPHALT CONCRETE SURFACE COURSE TYPE 1, PG 64-22
503	LUMP		COFFERDAMS, CRIBS, AND SHEETING, AS PER PLAN
503	LUMP		UNCLASSIFIED EXCAVATION
509	13,920	LB	EPOXY COATED REINFORCING STEEL
511	6	CY	CLASS C CONCRETE, AS PER PLAN
511	114	CY	CLASS C CONCRETE, FOOTING
512	373	SY	TYPE 2 WATERPROOFING
601	12	SY	RIPRAP USING 6" REINFORCED CONCRETE
603	96	FT	CONDUIT, TYPE A, PRECAST REINFORCED CONCRETE THREE SIDED FLAT TOPPED CULVERT, (20'-0" SPAN X 4'-3" RISE) AS PER PLAN
604	2	EACH	MANHOLE NO. 3, AS PER PLAN
613	216	CY	LOW STRENGTH MORTAR BACKFILL

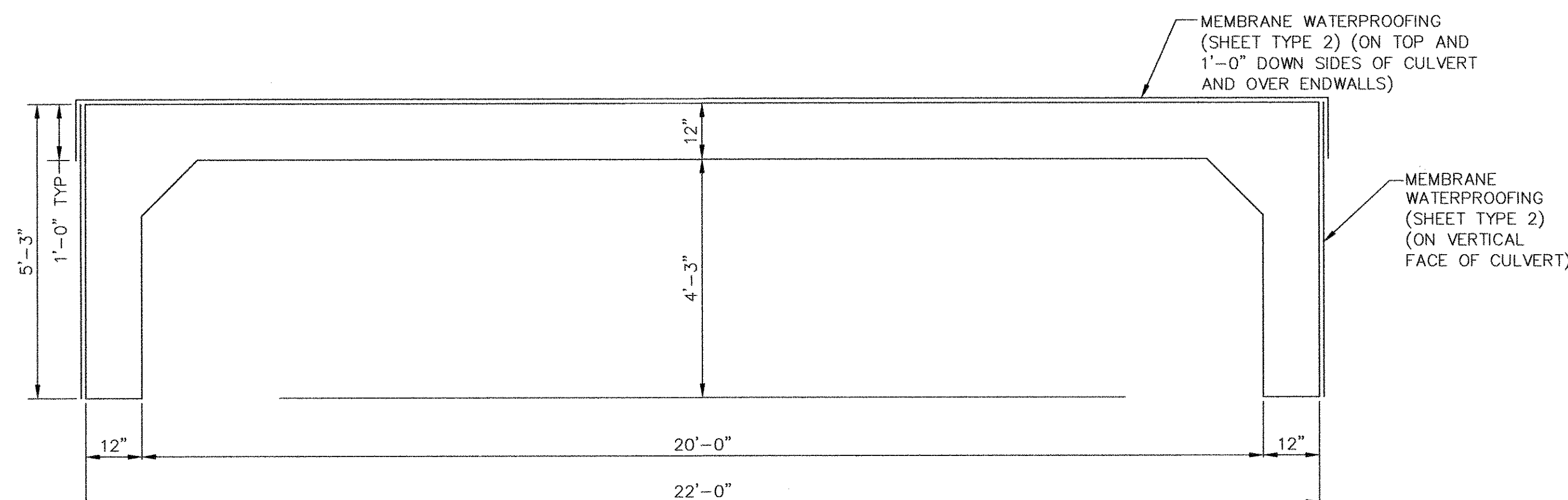
QUANTITIES CARRIED TO GENERAL SUMMARY



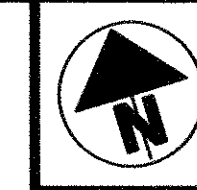
LEGEND

- ① ITEM 448 - ASPHALT CONCRETE SURFACE COURSE TYPE 1, PG 64-22 - 1.25" TH.
- ② ITEM 407 - TACK COAT FOR SURFACE COURSE @ 0.07 G/SY
- ③ ITEM 448 - ASPHALT CONCRETE INTERMEDIATE, TYPE 1, PG 64-22 - 1.75" TH.
- ④ ITEM 407 - TACK COAT FOR INTERMEDIATE COURSE, @ 0.04 G/SY
- ⑤ ITEM 301 - ASPHALT CONCRETE BASE, PG 64-22 - 9" TH.
- ⑥ ITEM 408 - PRIME COAT @ 0.40 G/SY
- ⑦ ITEM 304 - AGGREGATE BASE, 6" TH.

TYPICAL SECTION FULL DEPTH PAVEMENT



PRECAST CONCRETE THREE SIDED FLAT TOPPED CULVERT SECTION

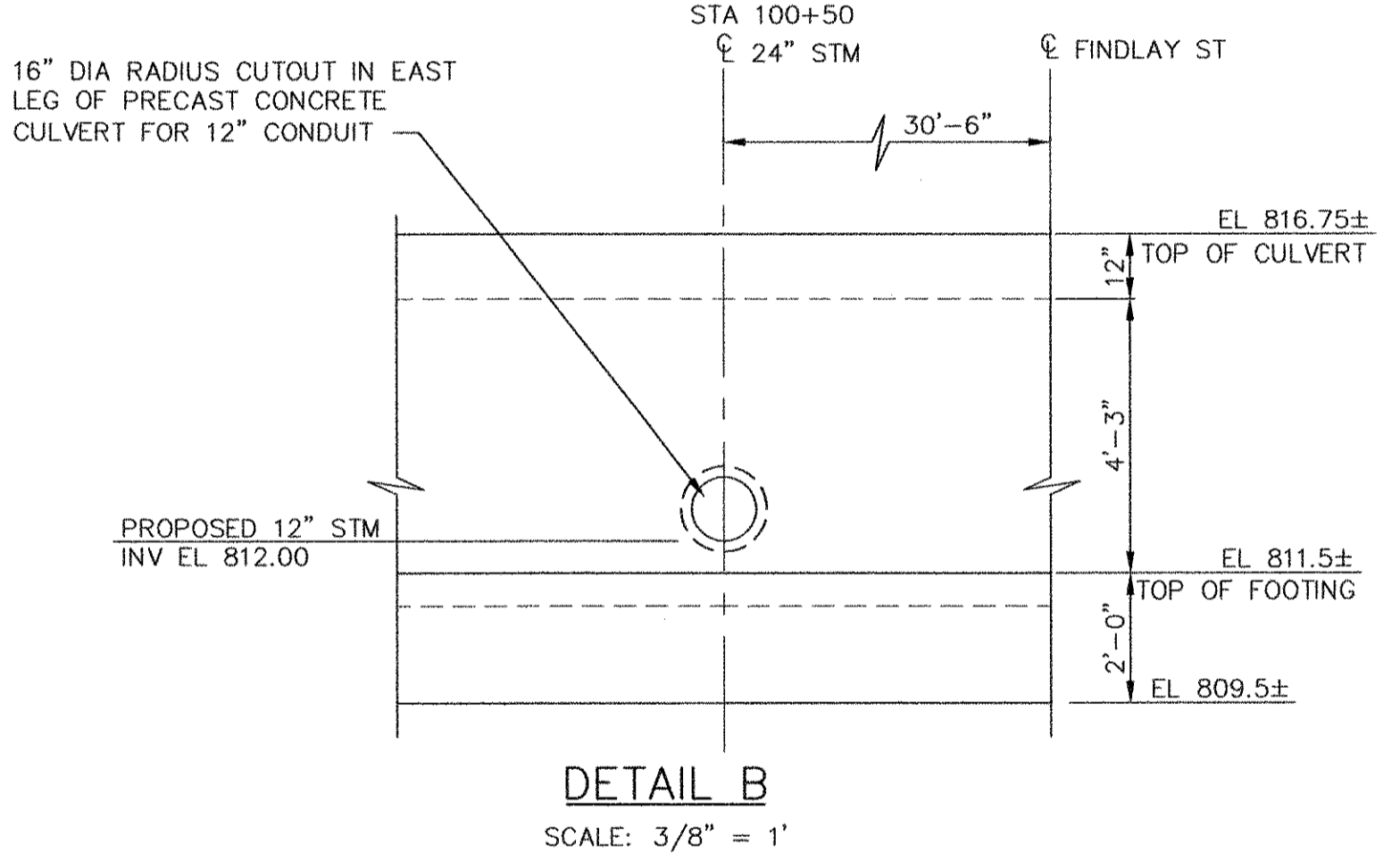
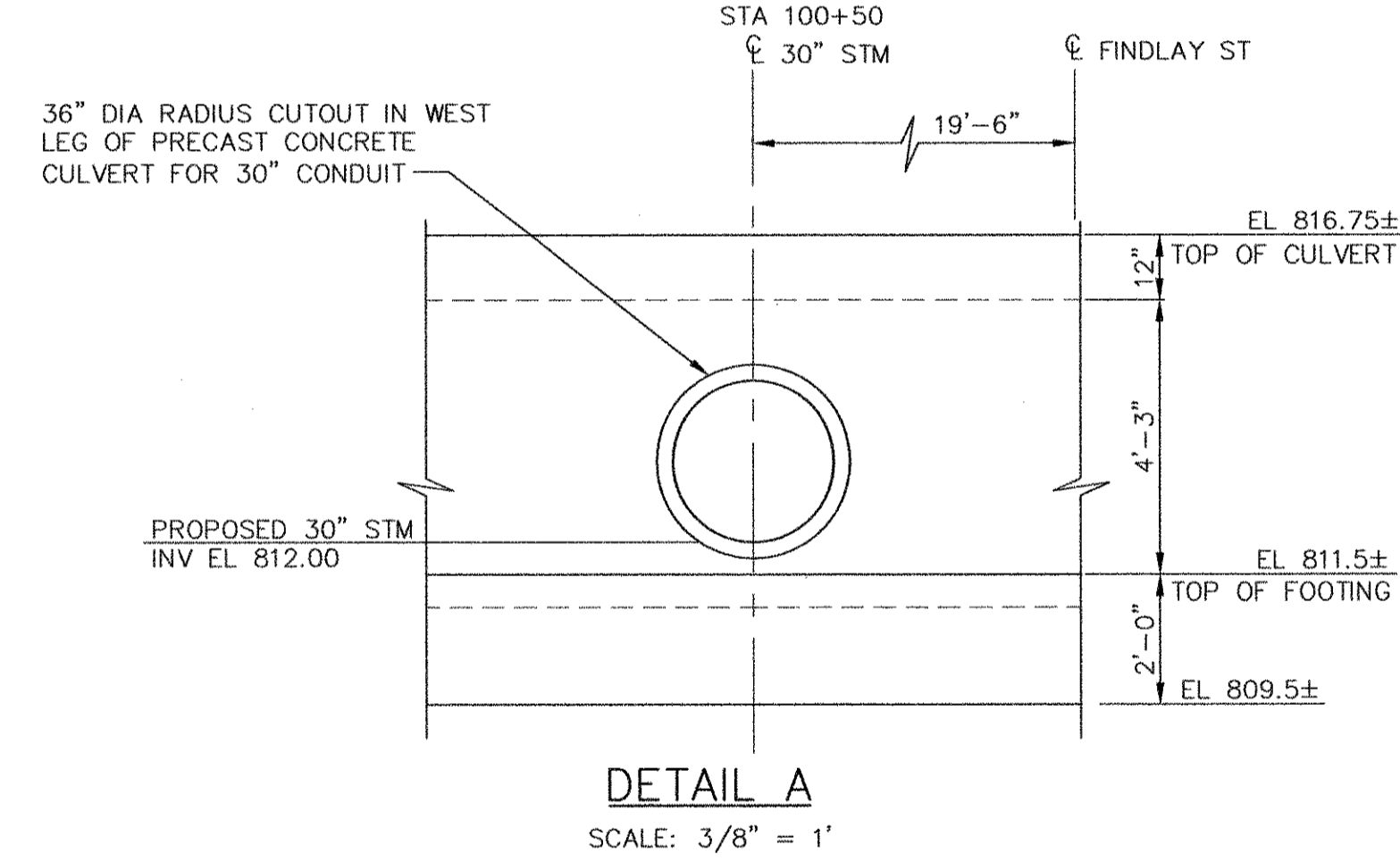
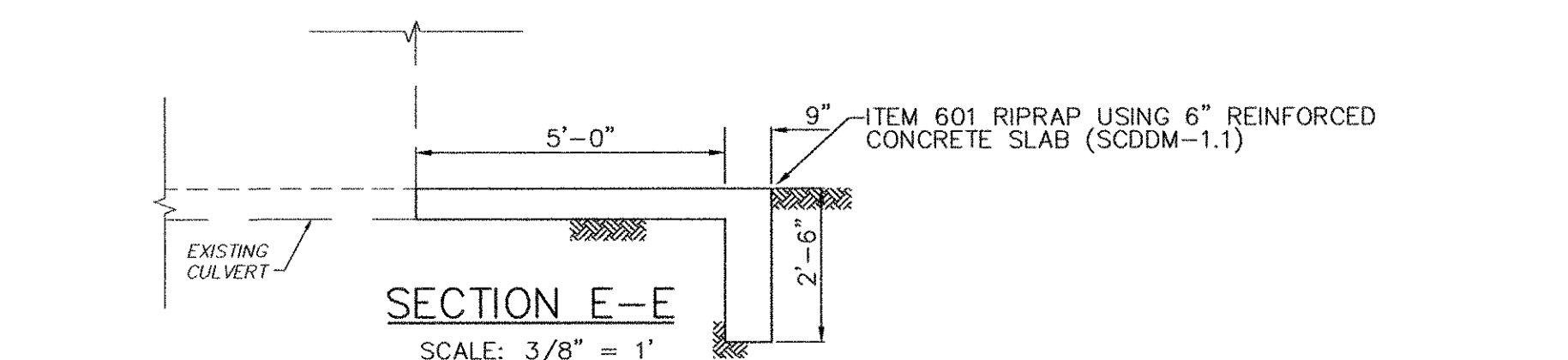
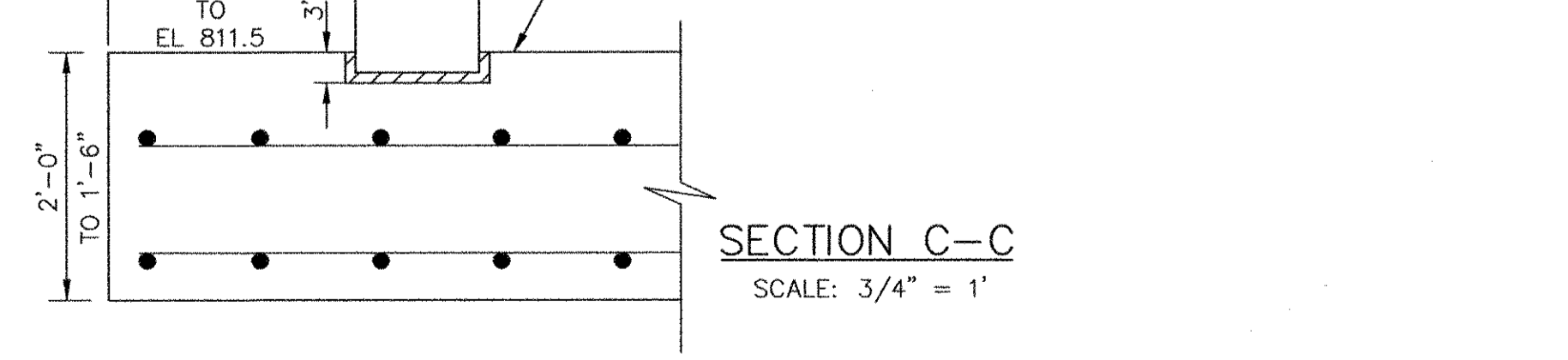
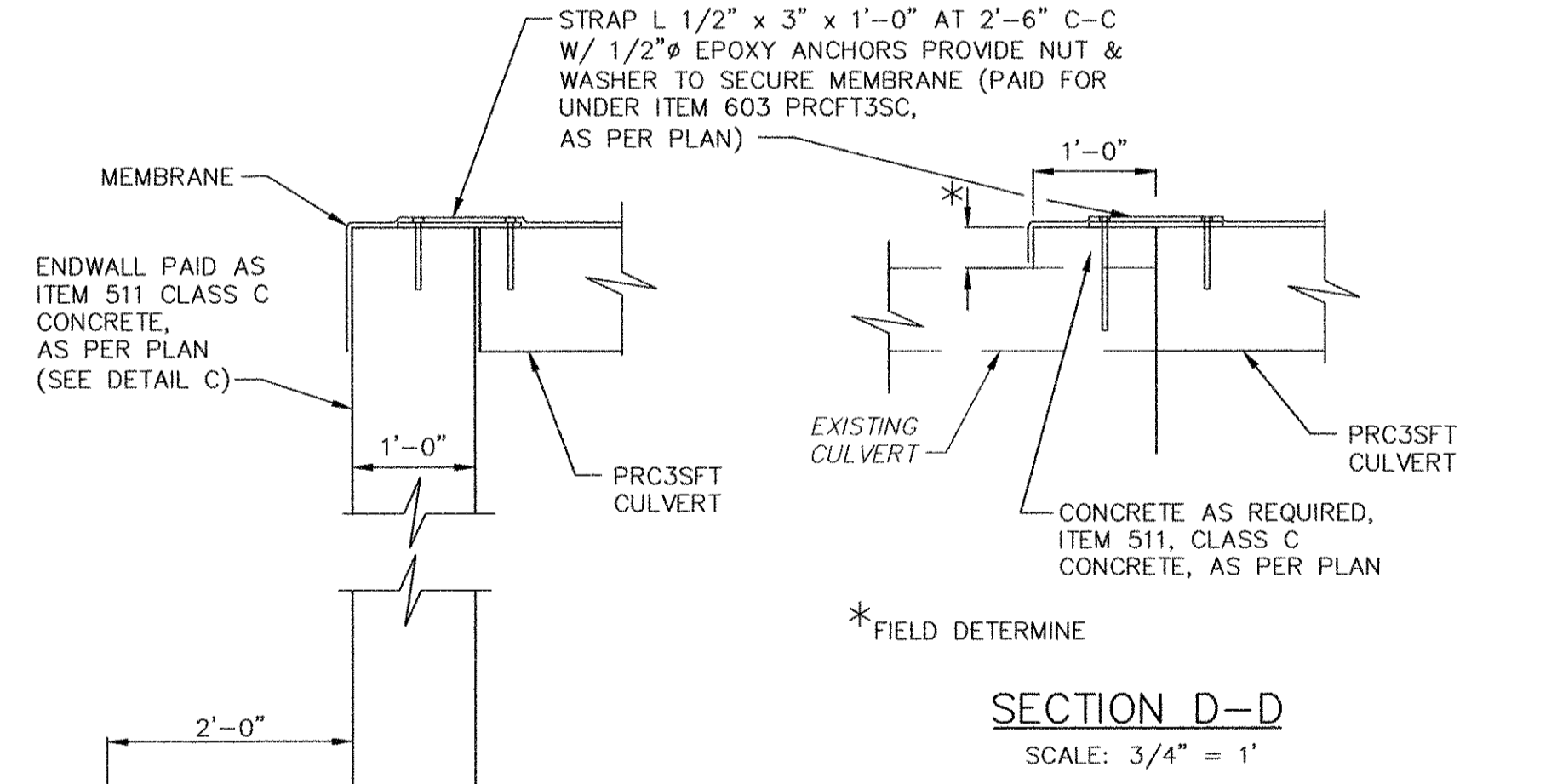
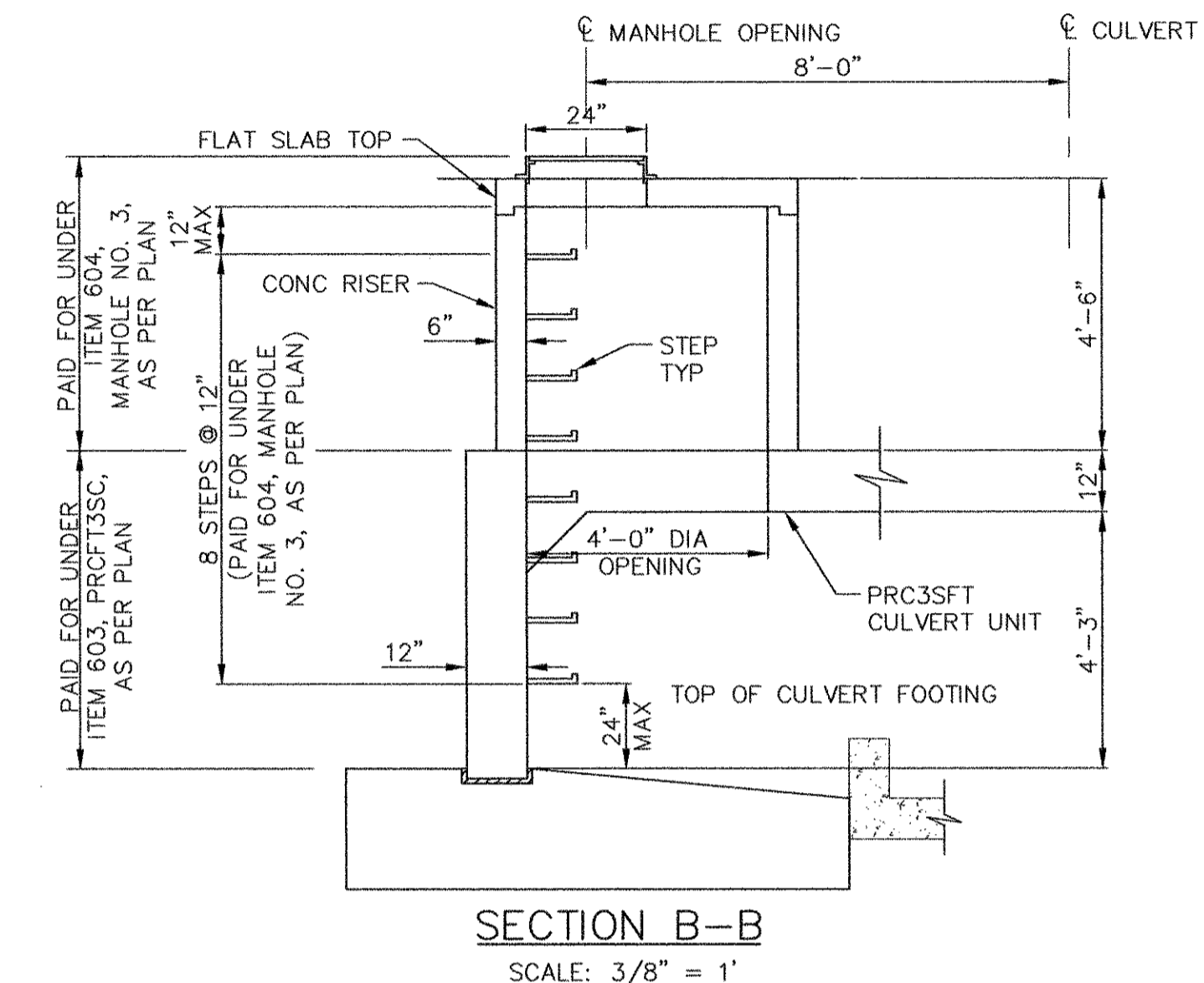
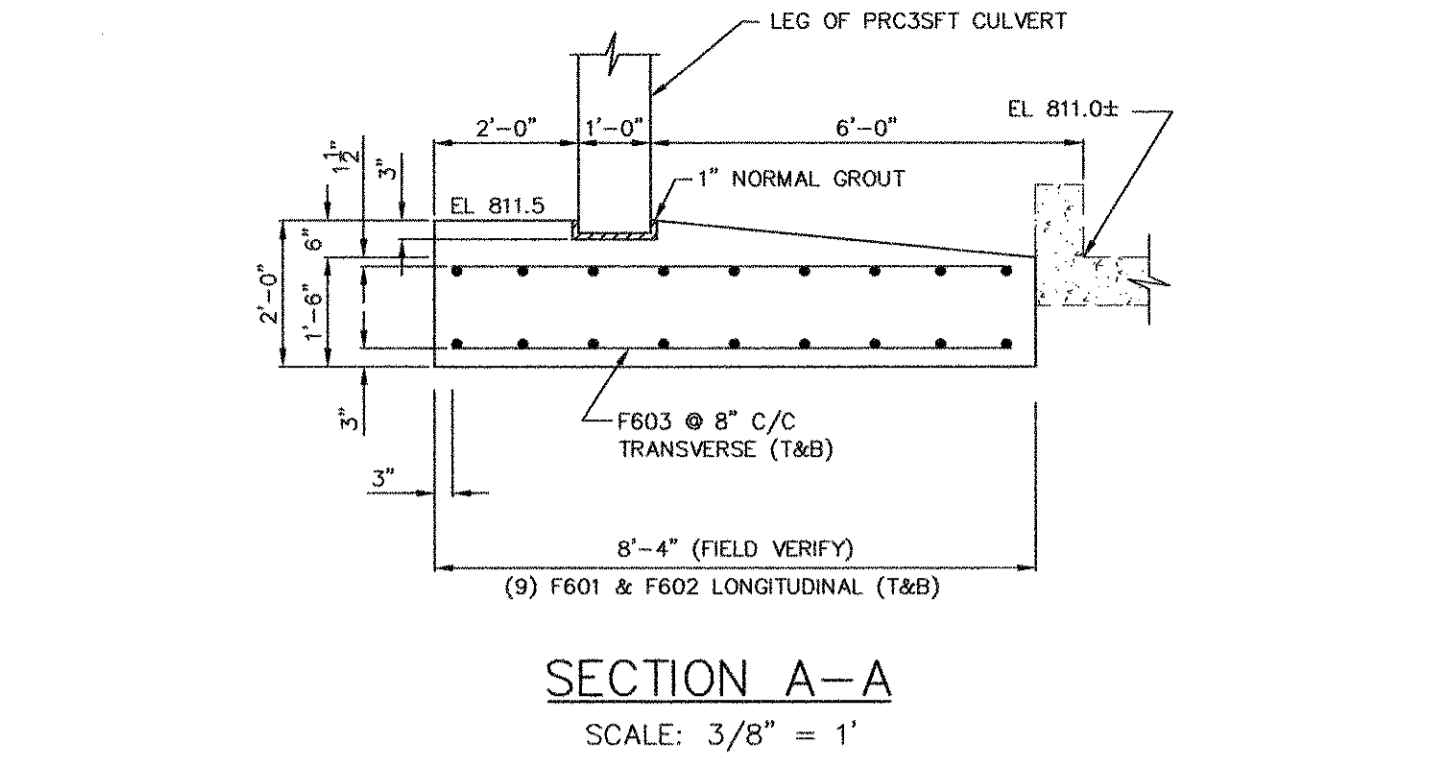
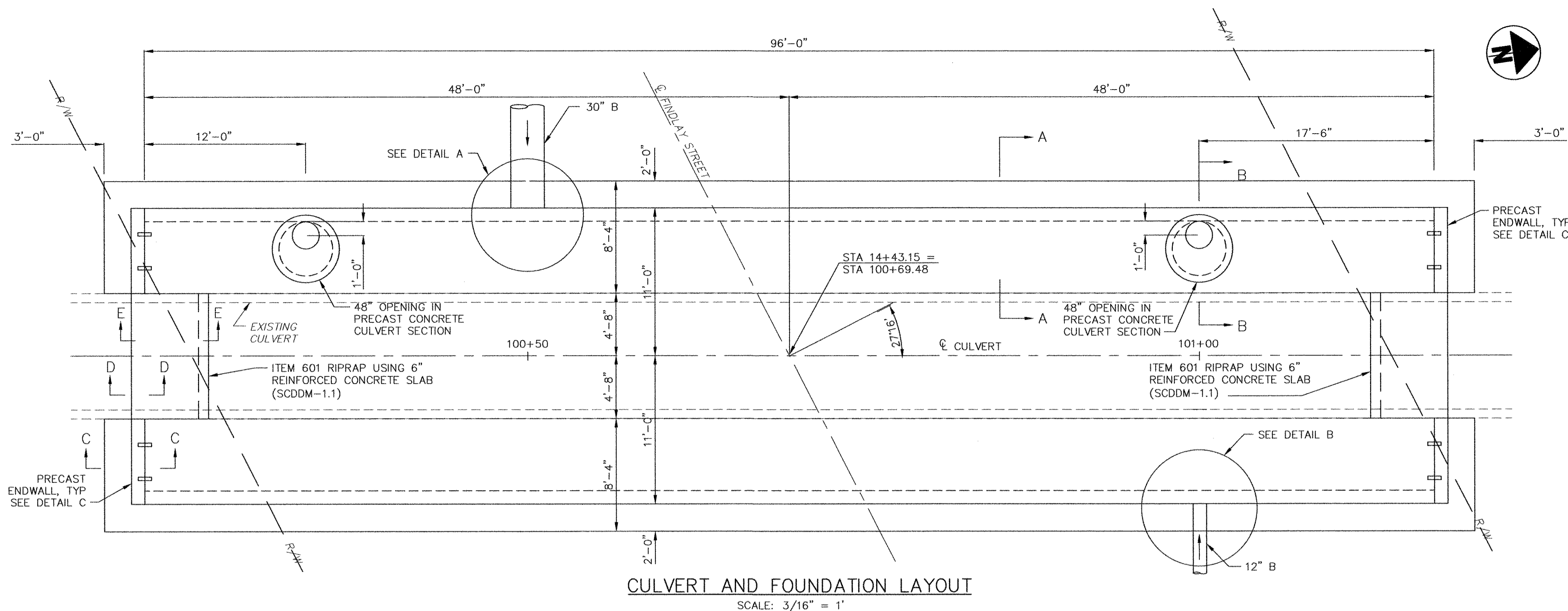


NOT TO SCALE

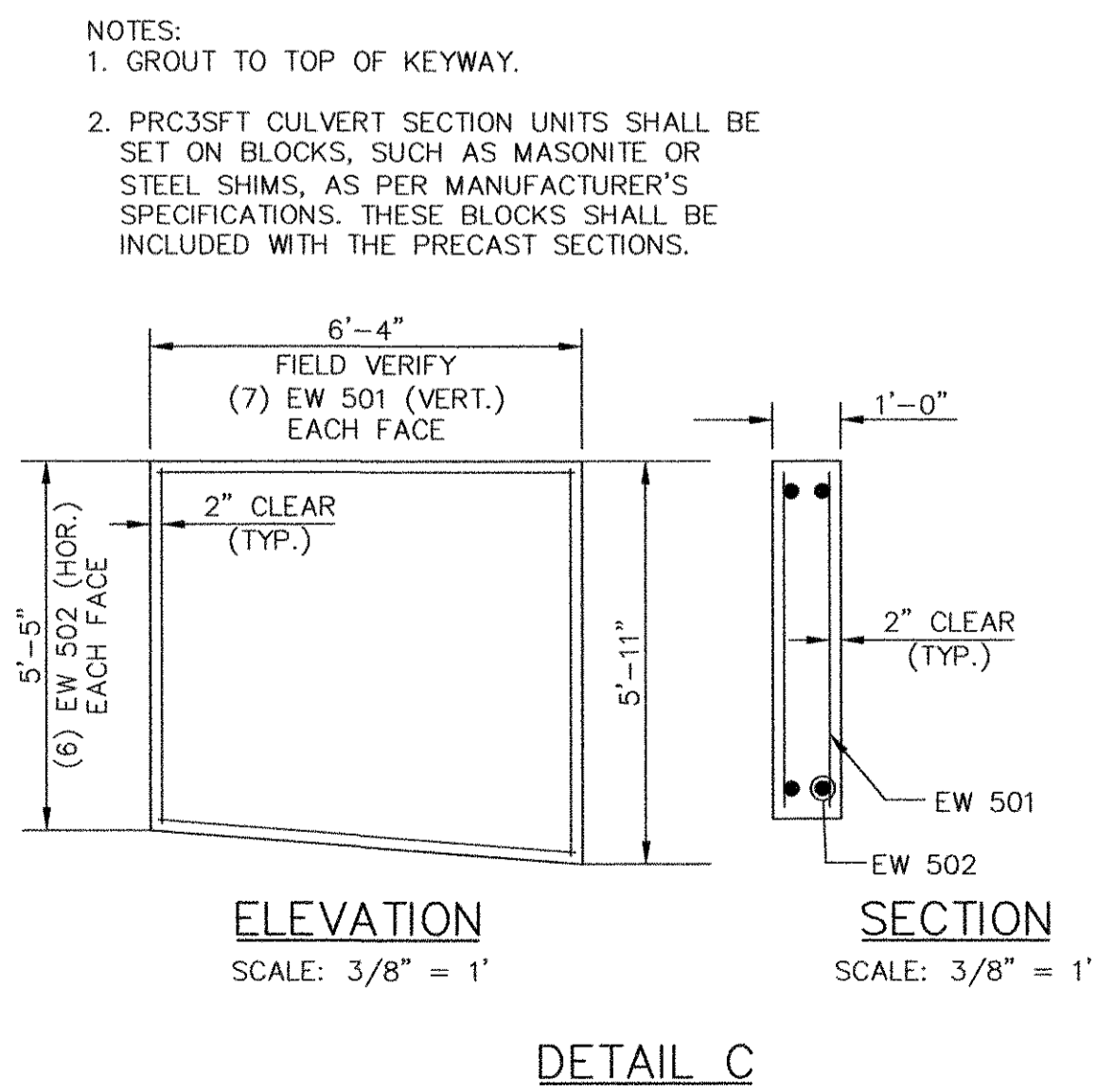
CALCULATED  
CHECKED

FINDLAY STREET CULVERT PHASE 1  
GENERAL NOTES & ESTIMATED QUANTITIES

WYA-CAREY  
STREETSCAPE



REINFORCING SCHEDULE						
MARK	NO.	LENGTH	WEIGHT (LBS.)	TYPE	INCR.	REMARKS
FOOTER						
F601	108	30'-0"	4866	ST		3'-6" LAP
F602	36	22'-0"	1190	ST		3'-6" LAP
F603	616	7'-10"	7248	ST		
		TOTAL	13304			
ENDWALL						
EW501	56	5'-1" TO 5'-7"	316	ST	1"	
EW502	48	6'-0"	300	ST		
		TOTAL	616			



**NOTES:**  
1. GROUT TO TOP OF KEYWAY.  
2. PRC3SFT CULVERT SECTION UNITS SHALL BE SET ON BLOCKS, SUCH AS MASONITE OR STEEL SHIMS, AS PER MANUFACTURER'S SPECIFICATIONS. THESE BLOCKS SHALL BE INCLUDED WITH THE PRECAST SECTIONS.

**OPENINGS IN PRC3SFT CULVERT:**  
THE FABRICATOR OF PRC3SFT CULVERT UNITS SHALL PROVIDE THE FOLLOWING OPENINGS IN THE UNITS:  
2-48" DIA OPENINGS IN PRECAST TOP UNITS AS DETAILED ON THE CULVERT LAYOUT ABOVE, TO PROVIDE MANHOLE ACCESS.  
1-36" DIA AND 1-16" OPENING IN PRECAST LEGS, TO OUTLET THE STORM SEWERS. THE SPACE BETWEEN THE OPENING AND STORM SEWER SHALL BE CAREFULLY SEALED WITH NON-SHRINK GROUT TO PREVENT ANY SEEPAGE. MAINTAIN 12" MIN. FROM UNIT SIDE EDGE TO OPENING.

ALL MATERIALS, EQUIPMENT, LABOR AND INCIDENTALS NECESSARY TO PROVIDE OPENINGS IN PRECAST UNITS SHALL BE INCLUDED FOR PAYMENT IN THE FT PRICE BID FOR ITEM 603 CONDUIT, TYPE A, PRECAST REINFORCED CONCRETE FLAT-TOPPED THREE SIDED CULVERT AS PER PLAN.

**ITEM 604, MANHOLE NO. 3, AS PER PLAN:**  
MANHOLE, STEPS, FRAME AND COVER SHALL CONFORM WITH REQUIREMENTS SET FORTH IN STANDARD DRAWING MH-1.1, WITH MODIFICATIONS AS SHOWN ON THIS SHEET.

ALL MATERIALS, EQUIPMENT, LABOR AND INCIDENTALS NECESSARY TO INSTALL, INCLUDING MANHOLE STEPS, FRAME AND COVER SHALL BE INCLUDED FOR PAYMENT IN THE EACH PRICE BID FOR ITEM 604 MANHOLE NO. 3, AS PER PLAN.

ITEM 604 MANHOLE NO. 3, AS PER PLAN - 2 EACH

**NOTES:**  
THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGITS WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATED THE BAR SIZE NUMBER. FOR EXAMPLE, P601 IS A NO. 6 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. R INDICATES INDIES RADIUS. UNLESS OTHERWISE NOTED, "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.  
ALL REINFORCING STEEL TO BE EPOXY COATED.