

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS):

843 DATED 04/18/2003

DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 17TH EDITION, INCLUDING THE 2002 INTERIM SPECIFICATIONS AND THE ODOT BRIDGE DESIGN MANUAL.

EXISTING STRUCTURE VERIFICATION

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02 AND 513.04.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED IN THE FIELD.

PROPOSED WORK

ATB-534-1661 (OVER BRANCH BRONSON CREEK)
 -REMOVE EXISTING ASPHALT CONCRETE OVERLAY AND REPLACE WITH WATERPROOF ASPHALT AND ASPHALT SURFACE COURSE
 -PATCH ALL UNSOUND AREAS OF CONCRETE WEARING SURFACE
 -REMOVE AND REPLACE EXISTING EXPANSION JOINTS USING POLYMER MODIFIED ASPHALT BINDER
 -PATCH ALL UNSOUND AREAS OF SUBSTRUCTURE INCLUDING FLOOR
 -SEAL ALL EXPOSED CONCRETE SURFACES, ABUTMENTS, DECK EDGES, AND WING WALLS WITH EPOXY-URETHANE
 -CLEARING AND GRUBBING 15' AROUND THE STRUCTURE TO REMOVE ALL VEGETATION
 -PROVIDE NEW STRUCTURE IDENTIFICATION SIGNS

ATB-534-1832 (OVER GRAND RIVER)
 -SEAL EXISTING WEARING SURFACE AND APPROACH SLABS WITH SRS CONCRETE TREATMENT.
 -REMOVE AND REPLACE EXISTING STRIP SEALS.
 -REPAIR EROSION THAT HAS OCCURRED AT THE REAR RIGHT AND LEFT.
 -CLEARING AND GRUBBING 15' AROUND THE STRUCTURE TO REMOVE ALL VEGETATION.
 -PROVIDE NEW STRUCTURE IDENTIFICATION SIGNS.

ATB-534-1932 (OVER ATB-90-2.94)
 -SEAL EXISTING WEARING SURFACE AND APPROACH SLABS WITH SRS CONCRETE TREATMENT
 -CLEAN EXISTING STRUCTURAL STEEL WITH POTABLE WATER AS PER CMS 514.14
 -PATCH ALL UNSOUND AREAS OF SUBSTRUCTURE INCLUDING PARAPETS
 -SEAL ALL EXPOSED CONCRETE SURFACES AND PARAPETS WITH EPOXY-URETHANE
 -CLEARING AND GRUBBING 15' AROUND THE STRUCTURE TO REMOVE ALL VEGETATION
 -PROVIDE NEW STRUCTURE IDENTIFICATION SIGNS

CLEARING AND GRUBBING

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

STRUCTURE PAINTING/CONCRETE SEALING OPERATIONS

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT EPOXY-URETHANE SEALER, PAINT OR OTHER MATERIALS USED TO REPAIR, CLEAN, PAINT, SEAL OR TREAT ANY STRUCTURE FROM ENTERING ANY STREAMS, WETLANDS OR OTHER WATERS OF THE UNITED STATES AND TAKE THE APPROPRIATE ACTIONS IN THE EVENT OF A RELEASE.

ITEM 519 - PATCHING CONCRETE STRUCTURES, AS PER PLAN (ATB-534-1661 & ATB-534-1932)

ITEM 519 - PATCHING CONCRETE STRUCTURES, AS PER PLAN: PRIOR TO THE SURFACE CLEANING SPECIFIED IN 519.04 AND WITHIN 24 HOURS OF PLACING PATCHING MATERIAL, BLAST CLEAN ALL SURFACES TO BE PATCHED INCLUDING THE EXPOSED REINFORCING STEEL. ACCEPTABLE METHODS INCLUDE HIGH-PRESSURE WATER BLASTING WITH OR WITHOUT ABRASIVES IN THE WATER, ABRASIVE BLASTING WITH CONTAINMENT, OR VACUUM ABRASIVE BLASTING.

SPECIAL - STRUCTURE MISC.: STRUCTURE CLEANING

THIS WORK WILL CONSIST OF CLEANING THE BEAMS/GIRDERS AND BEARINGS OF STRUCTURE ATB-534-1932 AS PER CMS 514.14. ALSO, ALL DIRT AND DEBRIS FROM THE ABUTMENTS, BEAM SEATS, AND PIER CAPS WILL BE REMOVED AND WASHED WITH POTABLE WATER. THIS WORK WILL BE COMPLETED PRIOR TO THE REPAIR PAINTING OPERATIONS.

STRUCTURE CLEANING WILL BE PAID FOR AT THE LUMP SUM BID FOR SPECIAL, STRUCTURE MISC.: STRUCTURE CLEANING. THIS PRICE WILL INCLUDE THE COST FOR LABOR, EQUIPMENT, AND ALL INCIDENTALS REQUIRED TO COMPLETE THIS WORK.

SPECIAL - STRUCTURE MISC.: CONCRETE SPALL REMOVAL

THIS WORK WILL CONSIST OF REMOVING ALL VISIBLY SPALLED AREAS OF THE BOTTOM DECK FLOOR OF STRUCTURE(S) ATB-534-1661 WITHOUT SOUNDING. AFTER SPALLED CONCRETE AREAS HAVE BEEN REMOVED, REMOVAL AREAS WILL BE SEALED WITH ITEM 512, SEALING OF CONCRETE SURFACES (EPOXY-URETHANE).

CONCRETE SPALL REMOVAL WILL BE PAID FOR AT THE UNIT BID PRICE FOR SPECIAL STRUCTURE MISC.: CONCRETE SPALL REMOVAL. THIS PRICE WILL INCLUDE THE COST OF LABOR, EQUIPMENT, AND ALL INCIDENTALS REQUIRED TO COMPLETE THIS WORK.

ATB-534-1661
 SPEC, STRUCTURE MISC.: CONCRETE SPALL REMOVAL, 50 SQ YD
 512, SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), 50 SQ YD

EROSION REPAIR

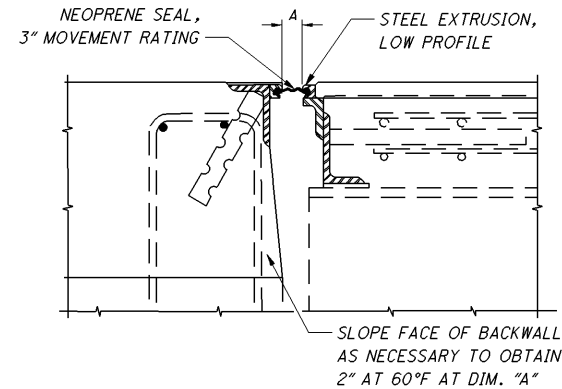
THIS WORK WILL CONSIST OF REPAIR THE EROSION ALONG THE REAR RIGHT AND REAR LEFT OF STRUCTURE ATB-534-1832. REPAIR WORK WILL BE PAID FOR BY THE FOLLOWING ITEMS.

STRUCTURE ATB-534-1832:
 ITEM 203 - BORROW 10 CY
 ITEM 601 -DUMPED ROCK, TYPE D 10 CY

ITEM 516- ELASTOMERIC STRIP SEAL WITHOUT STEEL EXTRUSIONS, AS PER PLAN (ATB-534-1832)

THIS ITEM WILL INCLUDE THE REMOVAL AND REPLACEMENT OF THE EXISTING STRIP SEAL GLANDS FROM EDGE TO EDGE OF DECK. UPON REMOVAL OF THE SEAL, THE CONTRACTOR WILL ATTEMPT TO MATCH THE REPLACEMENT SEAL AS CLOSELY AS POSSIBLE WITH THE EXISTING SEAL SO AS TO PROVIDE A SNUG, WATERTIGHT SEAL. THE EXISTING STRIP SEAL WILL BE FIELD MEASURE PRIOR TO ORDERING MATERIAL. THE STRIP SEAL AND INSTALLATION WILL MEET THE REQUIREMENTS OF STANDARD DRAWING EXJ-4-87.

THIS WORK WILL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM 516, ELASTOMERIC STRIP SEAL WITHOUT STEEL EXTRUSION, AS PER PLAN. THIS PRICE WILL INCLUDE THE REMOVAL OF THE EXISTING STRIP SEAL, LABOR, EQUIPMENT, MATERIAL, AND INCIDENTALS REQUIRED TO REPLACE THE STRIP SEAL.



REQUIRED JOINT OPENING (DIM. "A") - 3" STRIP SEAL

| TEMPERATURE (°F) | ATB-534-1832 FWD ABUTMENT DIM "A" | ATB-534-1832 REAR ABUTMENT DIM "A" |
|------------------|-----------------------------------|------------------------------------|
| 30 | 2" | 2" |
| 40 | 1 3/4" | 1 3/4" |
| 50 | 1 5/8" | 1 5/8" |
| 60 | 1 1/2" | 1 1/2" |
| 70 | 1 3/8" | 1 3/8" |
| 80 | 1 1/4" | 1 1/4" |
| 90 | 1" | 1" |

CORRECTING BRIDGE IDENTIFICATION SIGN NUMBERS:

SOME OF THE EXISTING BRIDGE NUMBER SIGNS HAVE INCORRECT BRIDGE NUMBERS ON THEM. THE FOLLOWING BRIDGE NUMBERS ARE THE CORRECT ONES AND WILL BE USED ON THE NEW BRIDGE IDENTIFICATION SIGNS.

STRUCTURE ATB-534-1661 (SFN: 0407054) THE EXISTING SIGN SHOWS 1666. THE CORRECT BRIDGE IDENTIFICATION NUMBER IS 1661.

STRUCTURE ATB-534-1832 (SFN: 0407089) THE EXISTING SIGN SHOWS 1834. THE CORRECT BRIDGE IDENTIFICATION NUMBER IS 1832.

STRUCTURE ATB-534-1932 (SFN: 0407119) THE EXISTING SIGN SHOWS 1935. THE CORRECT BRIDGE IDENTIFICATION NUMBER IS 1932.

STRUCTURE IDENTIFICATION SIGNS

STRUCTURE IDENTIFICATION SIGNS (I-H25a) WILL BE PLACED ON EACH APPROACH OFF THE RIGHT SHOULDER, FACING TRAFFIC, AND BEHIND THE GUARDRAIL IF APPLICABLE. A QUANTITY OF ONE SIGN PER APPROACH WILL BE INSTALLED. THE SIGNS WILL HAVE A NON-REFLECTIVE WHITE SHEETING BACKGROUND.

THE SIGNS WILL BE MOUNTED ON NEW NO. 2 POSTS AND WILL BE INSTALLED AS PER STANDARD CONSTRUCTION DRAWING TC-41.20, MOST CURRENT REVISION. EACH POST WILL BE 7.5' IN LENGTH.

INSTALL SIGNS FOR THE FOLLOWING STRUCTURES: ATB-534-1661 (2 APPROACHES), ATB-534-1832 (2 APPROACHES), AND ATB-534-1932 (2 APPROACHES)

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED FOR EACH APPROACH:
 ITEM 630 - SIGN, FLAT SHEET, 730.20, 1 SQ FT
 ITEM 630 - GROUND MOUNTED SUPPORT, NO. 2 POST, 7.5 FT
 ITEM 630 - REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL, 1 EACH
 ITEM 630 - REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL, 1 EACH

I:\Projects\ATB\86943_534_13.50\86943\structures\ATB534_1661C\sheets\534_1661CGN001.dgn 09-MAR-2015 8:28AM mchaney

STRUCTURE GENERAL NOTES

ATB-534-1661, ATB-534-1832, ATB-534-1932
 SFN: 0407054, 0407089, 0407119

ATB-534-13.50
PID No. 86943

1 / 5

12 / 16

DESIGN AGENCY
 ODOT -- DISTRICT 4
 PLANNING & ENGINEERING

DATE
 3/9/15
 REVIEWED
 TJP
 STRUCTURE FILE NUMBER

DRAWN
 JED
 REVISIONS
 CHECKED
 MAC

I:\Projects\ATB\86943_534_13.50\86943\structures\ATB534_1661C\sheets\534_1661CGN001.dgn 09-MAR-2015 8:28AM mchaney

SCENIC RIVER AVOIDANCE (ATB-534-1832 OVER GRAND RIVER)

THE GRAND RIVER UNDER THE ATB-534-1832 BRIDGE IS DESIGNATED AS A STATE SCENIC RIVER. UNDER NO CIRCUMSTANCES SHALL ANY EQUIPMENT (LIFT, SCAFFOLDING, EARTH MOVING EQUIPMENT, ETC.) AND/OR MATERIALS ENTER THE RIVER. NO WORK SHALL BE PERFORMED BELOW THE IDENTIFIED ORDINARY HIGH WATER MARK (OHWM) OF THE GRAND RIVER. NO FILL MATERIAL MAY BE PLACED BELOW THE OHWM OF THE GRAND RIVER. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT ALL CONSTRUCTION MATERIALS, WASTE MATERIALS, CHEMICALS OR OTHER SUBSTANCES USED TO CONSTRUCT THE PROJECT FROM ENTERING THE GRAND RIVER. SHOULD ANY MATERIALS AND/OR DEMOLITION DEBRIS FALL INTO THE RIVER, WORK SHALL BE STOPPED, AND ALL DEBRIS/MATERIAL, ETC. SHALL BE REMOVED IMMEDIATELY, AND IN SUCH A WAY AS TO MINIMIZE TURBIDITY THAT COULD DEGRADE WATER QUALITY AND ADVERSELY AFFECT AQUATIC PLANT AND ANIMAL LIFE.

EXISTING RIPARIAN HABITAT ZONES SHALL BE MAINTAINED TO THE MAXIMUM EXTENT POSSIBLE. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR UTILIZE SPRAY PAINT ON ANY TREES OR OTHER FOLIAGE TO DELINEATE THE PROJECT CONSTRUCTION LIMITS. THE PROPOSED TRANSPORTATION IMPROVEMENT SHALL FACILITATE FREE MOVEMENT OF AQUATIC FAUNA.

IN EACH CASE WHERE THERE IS AN INCIDENT OF HAZARDOUS MATERIAL FALLING OR MIGRATING INTO THE GRAND RIVER, THE CONTRACTOR SHALL, AS SOON AS POSSIBLE, NOTIFY THE ENGINEER/SUPERVISOR AND THE FOLLOWING AGENCIES:

OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WATERCRAFT
2010 MILTON BLVD. C-1
PO BOX 441
NEWTON FALLS, OH 44444
OFFICE (330) 872-0040
CELL (440) 225-5582
ATTN: MATTHEW SMITH, NORTHEAST REGION SCENIC RIVER MANAGER

OHIO EPA SPILL REPORTING
24 HOUR EMERGENCY SERVICE
CALL: 1-800-282-9378

- PROVIDE AS MUCH OF THE FOLLOWING INFORMATION AS POSSIBLE:
1. TIME OBSERVED
 2. LOCATION
 3. MATERIAL RELEASED
 4. PROBABLE SOURCE
 5. VOLUME & DURATION
 6. PRESENT & ANTICIPATED MOVEMENT OF CONTAMINANT
 7. PERSONNEL ON SCENE
 8. ACTIONS ALREADY INITIATED
 9. PERSON(S) ON THE SCENE TO CONTACT.

WASTE MATERIALS (ATB-534-1832 OVER GRAND RIVER)

ALL WASTE MATERIALS GENERATED DURING CONSTRUCTION ACTIVITIES SHALL BE IMMEDIATELY REMOVED FROM THE CONSTRUCTION SITE. IMMEDIATE REMOVAL IS DEFINED AS DEPOSITING THE REMOVED MATERIAL DIRECTLY INTO A TRUCK AND REMOVING THE MATERIALS FROM THE SITE; PLACEMENT OF REMOVED MATERIALS WITHIN 1,000 FEET OF THE GRAND RIVER IS PROHIBITED. PLACEMENT OF REMOVED MATERIAL INTO A WETLAND OR ON THE BANKS OF A STREAM OR RIVER EVEN TEMPORARILY IS CONSIDERED A FILL AND IS PROHIBITED.

PAINTING AND SEALING OPERATIONS (ATB-534-1832 OVER GRAND RIVER)

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT EPOXY-URETHANE SEALER, PAINT, OR OTHER STRUCTURAL MATERIALS USED TO REPAIR, CLEAN, SEAL, OR TREAT ANY BRIDGE STRUCTURE FROM ENTERING THE EAST BRANCH OF THE GRAND RIVER AND TAKE THE APPROPRIATE ACTIONS IN THE EVENT OR A RELEASE.

THE CONTRACTOR SHALL LIMIT THE AMOUNT OF OPEN CONCRETE SEALER TO THE EXTENT PRACTICABLE TO PERFORM THE REQUIRED WORK. DISCARDED CONTAINERS SHALL BE REMOVED FROM THE VICINITY OF THE GRAND RIVER AND UNDER NO CIRCUMSTANCES SHALL ANY SEALER BE STORED WITH THE 100 YEAR FLOOD PLAIN OF THE GRAND RIVER.

ODNR PRECONSTRUCTION NOTIFICATION (ATB-534-1832 OVER GRAND RIVER)

THE GRAND RIVER UNDER THE ATB-7-18.10 BRIDGE IS DESIGNATED AS A STATE SCENIC RIVER AND THE OHIO DEPARTMENT OF NATURAL RESOURCES, DIVISION OF WATERCRAFT, MUST RECEIVE PRECONSTRUCTION NOTIFICATION. AT LEAST FIFTEEN (15) CALENDAR DAYS PRIOR TO THE BEGINNING OF ANY WORK INCLUDING INSTALLATION OF MAINTENANCE OF TRAFFIC SIGNAGE, STAGING OF EQUIPMENT AND/OR MATERIALS, ETC., WITHIN 1000 FEET OF THE GRAND RIVER, THE CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO THE OHIO DEPARTMENT OF NATURAL RESOURCES, DIVISION OF WATERCRAFT.

INFORMATION REQUIRED AS PART OF THE PRECONSTRUCTION NOTIFICATION SHALL INCLUDE: 1) THE CONTRACTORS NAME AND ADDRESS; 2) CONTRACTOR AND ODOT DISTRICT 4 CONSTRUCTION REPRESENTATIVE CONTACT INFORMATION; 3) THE SCHEDULED DATES FOR THE START AND COMPLETION OF THE BRIDGE REHABILITATION; AND 4) ONE COPY OF THE CONSTRUCTION PLANS.

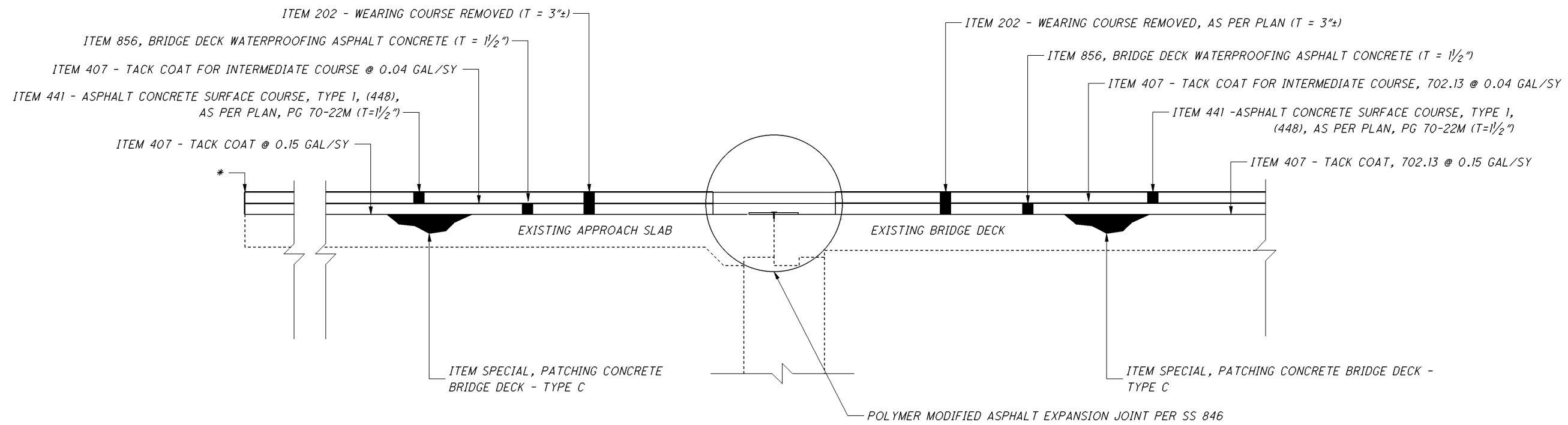
THE CONTRACTOR SHALL COMPILE THE ABOVE PRECONSTRUCTION NOTIFICATION AND SUBMIT IT TO:

OHIO DEPARTMENT OF NATURAL RESOURCES DIVISION OF WATERCRAFT 2010 MILTON BLVD. C-1, PO BOX 441 NEWTON FALLS, OH 44444 OFFICE (330) 872-0040 CELL (440) 225-5582
ATTN: MATTHEW SMITH, NORTHEAST REGION SCENIC RIVER MANAGER

A COPY OF THE NOTIFICATION SHALL BE PROVIDED TO THE ODOT PROJECT ENGINEER. THE CONTRACTOR SHALL FURNISH ALL FEES, LABOR, AND MATERIALS NECESSARY TO COMPLETE AND SUBMIT THE PRECONSTRUCTION NOTIFICATION.

I:\Projects\ATB\86943_534_13.50\86943\structures\ATB534_1661C\sheets\534_1661CE0001.dgn 09-MAR-2015 8:29AM mchaney

| ESTIMATED QUANTITIES | | | | | | | | | | | | |
|-------------------------------------|-------------------------------------|-------------------------------------|--|--|--|--|--|------|-----------|------|---|-----------|
| BRIDGE NO. / STRUCTURE FILE NO. | | | | | | | | ITEM | EXTENSION | UNIT | DESCRIPTION | SEE SHEET |
| ATB-534-1661 407054 02/STR/BR | ATB-534-1832 407089 02/STR/BR | ATB-534-1932 407119 04/IMS/BR | | | | | | | | | | |
| LUMP | LUMP | LUMP | | | | | | 201 | 11000 | | CLEARING AND GRUBBING | |
| 227 | | | | | | | | 202 | 23500 | SY | WEARING COURSE REMOVED | |
| | 10 | | | | | | | 203 | 40000 | CY | BORROW | |
| 20 | | | | | | | | 407 | 10000 | GAL | TACK COAT | |
| 14 | | | | | | | | 407 | 13900 | GAL | TACK COAT, 702.13 | |
| 6 | | | | | | | | 407 | 14000 | GAL | TACK COAT FOR INTERMEDIATE COURSE | |
| 4 | | | | | | | | 407 | 14010 | GAL | TACK COAT FOR INTERMEDIATE COURSE, 702.13 | |
| 10 | | | | | | | | 441 | 50101 | CY | ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN, PG 70-22M (T=1.5") | 1/5 |
| 145 | | 687 | | | | | | 512 | 10100 | SY | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) | |
| | 1794 | 2090 | | | | | | 512 | 10400 | SY | TREATING OF CONCRETE BRIDGE DECK WITH SRS | |
| 95 | | 687 | | | | | | 512 | 74000 | SY | REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES | |
| | 72 | | | | | | | 516 | 01301 | FT | ELASTOMERIC STRIP SEAL WITHOUT STEEL EXTRUSIONS, AS PER PLAN (ATB-534-1832) | 1/5 |
| 150 | | 200 | | | | | | 519 | 11101 | SF | PATCHING CONCRETE STRUCTURE, AS PER PLAN | 1/5 |
| 4 | 2 | | | | | | | SPEC | 51912304 | SY | PATCHING CONCRETE BRIDGE DECK - TYPE C | |
| | | LUMP | | | | | | SPEC | 53000200 | | STRUCTURE, MISC.: STRUCTURE CLEANING (ATB-534-1932) | 1/5 |
| 50 | | | | | | | | SPEC | 53000800 | SY | STRUCTURE, MISC.: CONCRETE SPALL REMOVAL | 1/5 |
| | 10 | | | | | | | 601 | 28000 | CY | DUMPED ROCK FILL, TYPE D | |
| 15 | 15 | 15 | | | | | | 630 | 02100 | FT | GROUND MOUNTED SUPPORT, NO. 2 POST | |
| 2 | 2 | 2 | | | | | | 630 | 80100 | SF | SIGN, FLAT SHEET, 730.20 | |
| 2 | 2 | 2 | | | | | | 630 | 84900 | EACH | REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL | |
| 2 | 2 | 2 | | | | | | 630 | 86002 | EACH | REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL | |
| 75 | | 100 | | | | | | 843 | 50000 | SF | PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR | |
| 48 | | | | | | | | 846 | 00100 | FT | POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM | |
| 10 | | | | | | | | 856 | 10000 | CY | BRIDGE DECK WATERPROOFING ASPHALT CONCRETE | |



ATB-534-1661

APPROACH SHOWN,
TRAILING SIMILAR

NOTE:

* TRANSITION PAVEMENT TO APPROACH SLABS PER BP - 3.1

| BRIDGE NUMBER | BRIDGE DECK | | | | | | | | | | | | APPROACH (FORWARD / REAR) | BRIDGE DECK | | | | | | | | | | | | | |
|---------------|------------------------------|--------------------|--------------------|-------------------------------------|--|--|---|--|---|---|---|-------------------------------|---------------------------|---------------------------|-----------------------------|-------------------------------------|--------------------------------|--|---|---|--|---|--------|--|--|--|--|
| | LENGTH (BRIDGE LIMITS) FT | BRIDGE WIDTH FT | DECK AREA SQ YD | 202 | 407 | 407 | 441 | SPEC | 846 | 856 | 512 | LENGTH (APPROACH SLABS) FT | | APPROACH SLAB WIDTH FT | APPROACH SLAB AREA SQ YD | 202 | 407 | 407 | 441 | 856 | SPEC | 512 | | | | | |
| | | | | WEARING COURSE REMOVED (T=3") SY | TACK COAT, 702.13 @ 0.15 GAL/SY GAL | TACK COAT FOR INTERMEDIATE COURSE, 702.13 @ 0.04 GAL/SY GAL | ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN, PG 70-22M (T=1.5") CY | PATCHING CONCRETE BRIDGE DECK - TYPE C SY | POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM FT | BRIDGE DECK WATERPROOFING ASPHALT CONCRETE (T=1.5") CY | TREATING OF CONCRETE BRIDGE DECK WITH SRS SY | | | | | WEARING COURSE REMOVED (T=3") SY | TACK COAT @ 0.15 GAL/SY GAL | TACK COAT FOR INTERMEDIATE COURSE @ 0.04 GAL/SY GAL | ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN, PG 70-22M (T=1.5") CY | BRIDGE DECK WATERPROOFING ASPHALT CONCRETE (T=1.5") CY | PATCHING CONCRETE BRIDGE DECK - TYPE C SY | TREATING OF CONCRETE BRIDGE DECK WITH SRS SY | | | | | |
| ATB-534-1661 | 19.00 | 44.00 | 92.89 | 92.89 | 13.93 | 3.72 | 3.87 | 2.00 | 48.00 | 3.87 | | 25.00 | 24.00 | 66.67 | FWD | 66.67 | 10.00 | 2.67 | 2.78 | 2.78 | 0.67 | | | | | | |
| | | | | | | | | | | | | 25.00 | 24.00 | 66.67 | REAR | 66.67 | 10.00 | 2.67 | 2.78 | 2.78 | 0.67 | | | | | | |
| ATB-534-1832 | 398.50 | 36.00 | 1594.00 | | | | | | | | 1594.00 | 25.00 | 36.00 | 100.00 | FWD | | | | | | | 1.00 | 100.00 | | | | |
| | | | | | | | | | | | | 25.00 | 36.00 | 100.00 | REAR | | | | | | | 1.00 | 100.00 | | | | |
| ATB-534-1932 | 263.50 | 60.00 | 1756.67 | | | | | | | | 1756.67 | 25.00 | 60.00 | 166.67 | FWD | | | | | | | | 166.67 | | | | |
| | | | | | | | | | | | | 25.00 | 60.00 | 166.67 | REAR | | | | | | | | 166.67 | | | | |
| TOTALS | | | | 93 | 14 | 4 | 4 | 2 | 48 | 4 | 3351 | | | | TOTALS | 134 | 20 | 6 | 6 | 6 | 4 | 534 | | | | | |

DESIGN AGENCY
ODOT --- DISTRICT 4
PLANNING AND ENGINEERING

REVIEWED
DATE 3/9/15
TJP
STRUCTURE FILE NUMBER

DRAWN
JED
REVISED

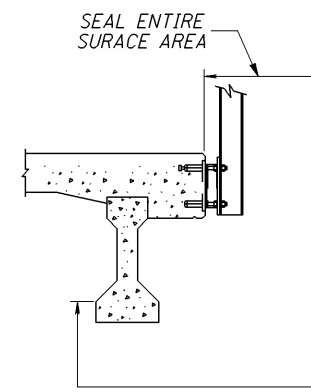
DESIGNED
JED
CHECKED
MAC

CONCRETE SEALING DETAILS
ATB-534-1661, ATB-534-1832, ATB-534-1932
SFN: 0407054, 0407089, 0407119

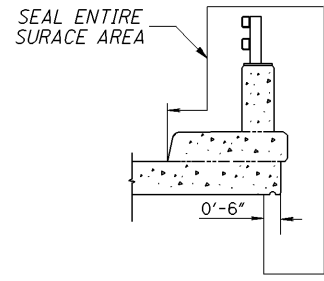
ATB-534-13.50
PID No. 86943

4 / 5

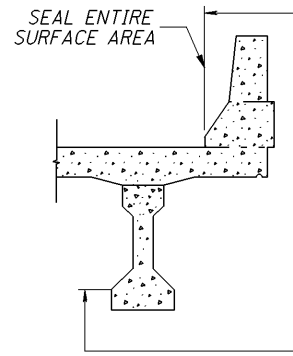
15 / 16



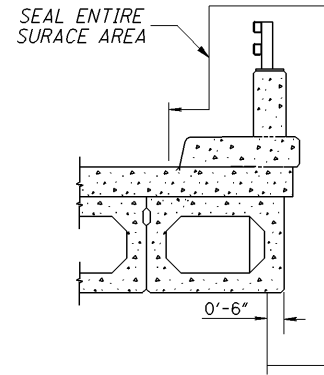
DETAIL A
CONCRETE DECKS WITH
OVER THE SIDE DRAINAGE



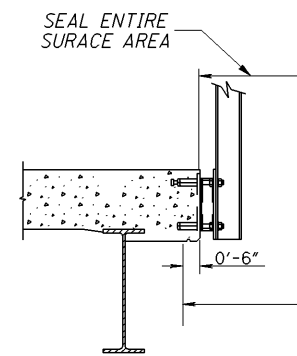
DETAIL B
CONCRETE DECKS WITH CURBS,
SIDEWALKS AND PARAPET



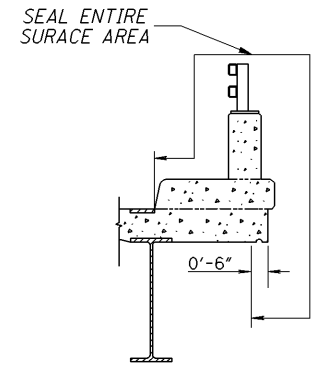
DETAIL C
CONCRETE DECK WITH
DEFLECTOR PARAPET



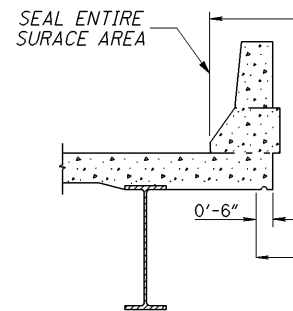
DETAIL D
PRESTRESSED BOX BEAM DECK
WITH DEFLECTOR PARAPET



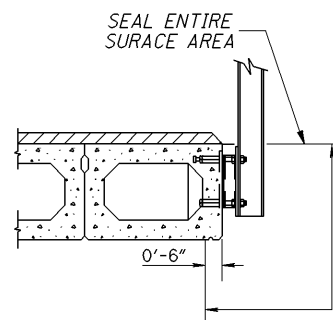
DETAIL E
CONCRETE DECKS WITH
OVER THE SIDE DRAINAGE



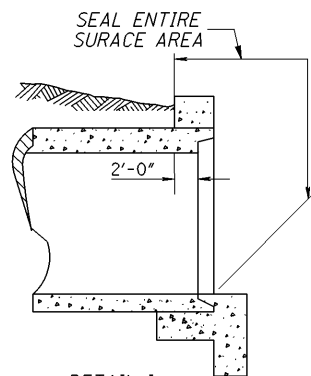
DETAIL F
CONCRETE DECKS WITH CURBS,
SIDEWALKS AND PARAPET



DETAIL G
CONCRETE DECK WITH
DEFLECTOR PARAPET



DETAIL H
PRESTRESSED BOX BEAM DECK
WITH OVER THE SIDE DRAINAGE



DETAIL I
PRECAST REINFORCED
CONCRETE BOX CULVERT

| BRIDGE NUMBER | STRUCTURE TYPE | PROPOSED SEALING | FEDERAL COLOR NUMBER | ESTIMATED QUANTITIES | | | | |
|---------------|---------------------------|--|----------------------|----------------------|--------------|---------------|-----------------|---------------|
| | | | | ABUT (SQ YD) | PIER (SQ YD) | SUPER (SQ YD) | GENERAL (SQ YD) | TOTAL (SQ YD) |
| ATB-534-1661 | CONCRETE SLAB SIMPLE SPAN | SEAL ALL EXPOSED CONCRETE AT ABUTMENTS, WINGWALLS AND DECK EDGES | PER CMS | 89.88 | | | 4.37 | 95 |
| ATB-534-1932 | STEEL BEAM CONTINUOUS | SEAL PARAPETS PER DETAIL G | PER CMS | | | 686.23 | | 687 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |