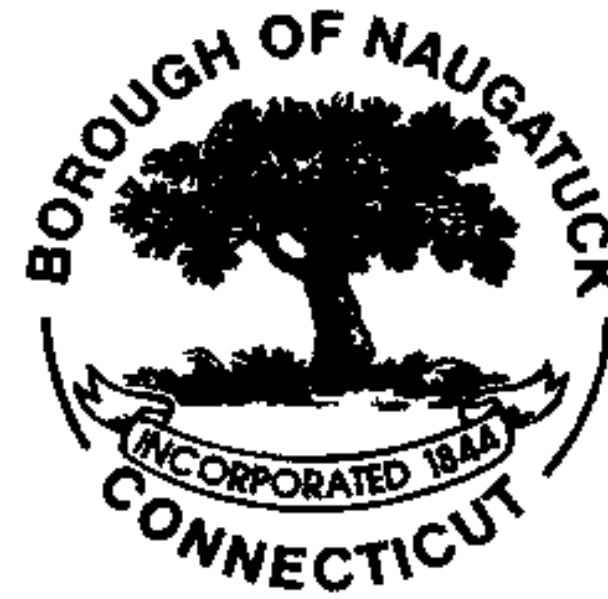
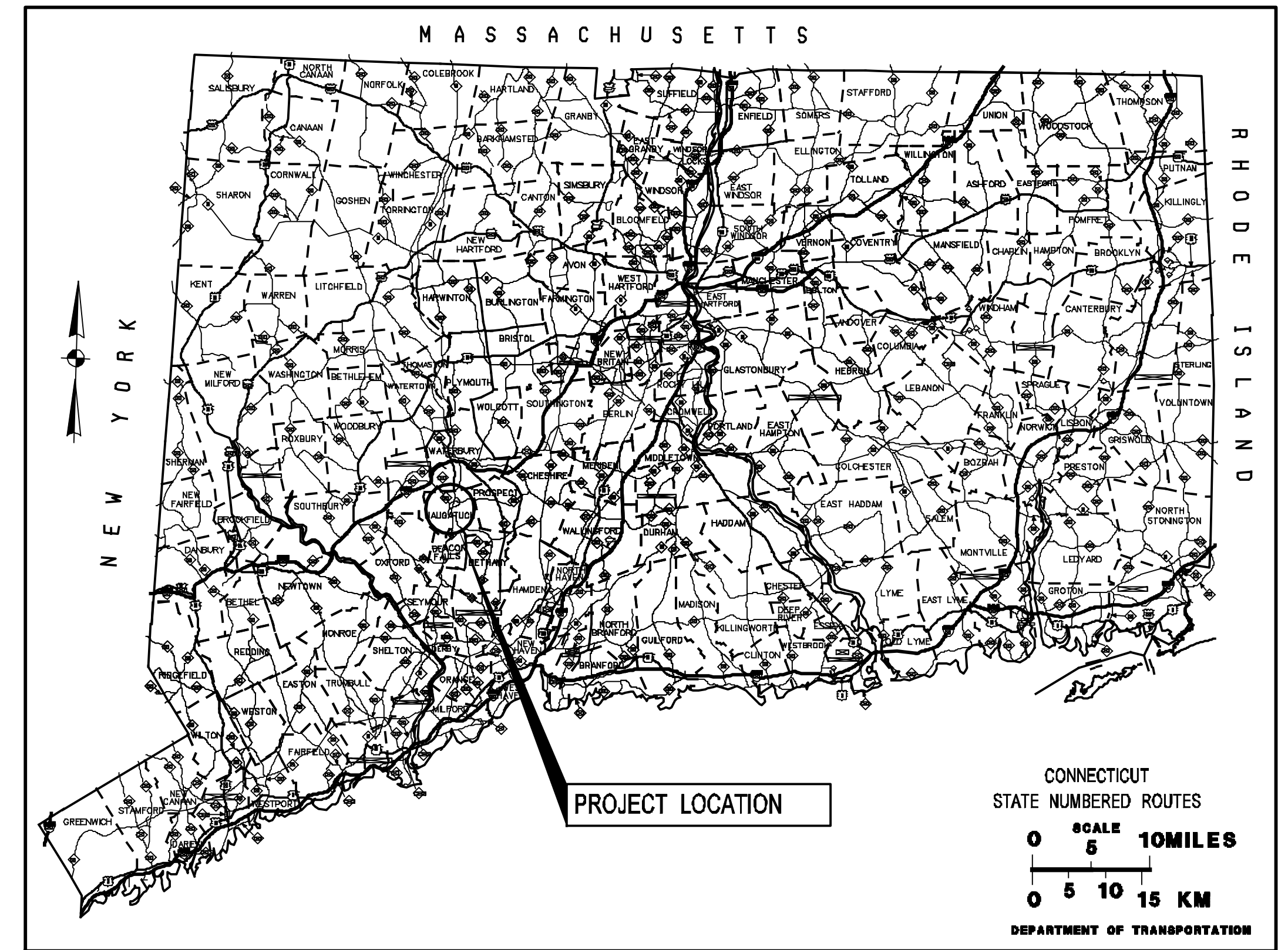
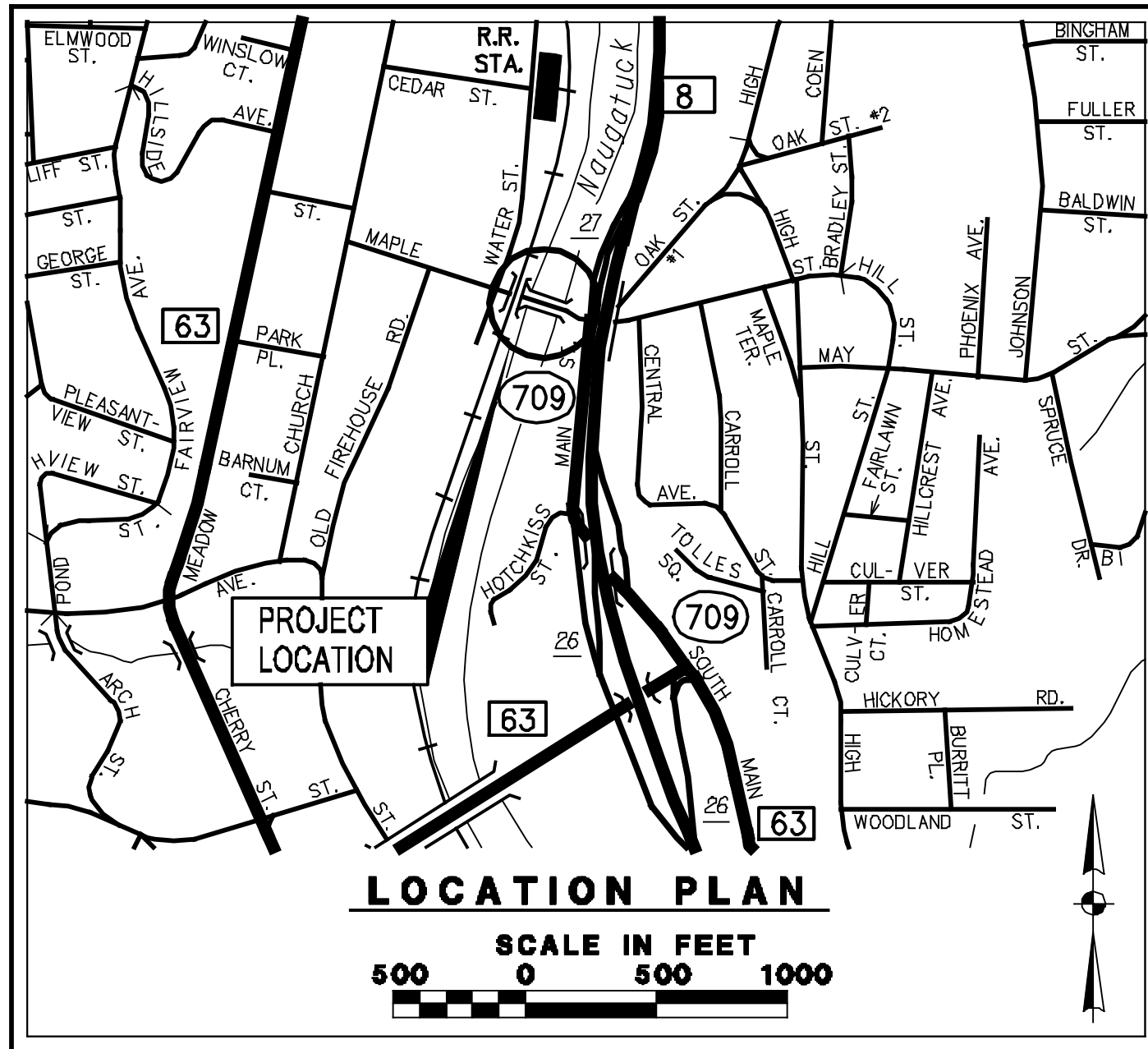


BOROUGH OF NAUGATUCK DEPARTMENT OF PUBLIC WORKS



PLANS FOR REHABILITATION OF STRUCTURE MAPLE STREET OVER NAUGATUCK RIVER BRIDGE NO. 04214

STATE PROJECT 9087-4214
FROM STA. 9+40.0 TO STA. 12+83.0
LENGTH 343.0 FT



LIST OF DRAWINGS				
SHEET NO.	TITLE	SHEET NO.	CTDOT STANDARD SHEETS	APPROVAL DATE
1	TITLE SHEET	HW-507_07	TYPE "C" AND "C-L" CATCH BASIN TOPS AND CURBS	09-09-09
2	GENERAL NOTES AND QUANTITIES	HW-507_08	CATCH BASIN FRAMES AND GRATES	09-09-09
3	PLAN	HW-811_01	CURBING	09-09-09
4	TYPICAL SECTIONS	HW-822_01	TEMPORARY PRECAST CONCRETE BARRIER CURB	09-09-09
5	SIGNING AND STRIPING PLAN	HW-921_02	SIDEWALK RAMPS	09-09-09
6	UTILITY PLAN	TR-1001_01	TRENCHING AND BACKFILLING, ELECTRICAL CONDUIT	09-01-09
7	UTILITY DETAILS	TR-1101_01	POLE ANCHOR, CONTROL CABLE AND MESSENGER & SPAN WIRE	09-01-09
8-19	BRIDGE SHEETS	TR-1105_01	TRAFFIC SIGNALS AND CABLE ASSIGNMENTS	09-01-09
20	STAGE 1 PLAN	TR-1108_01	CONTROLLERS	09-01-09
21	STAGE 2 PLAN	TR-1111_02	VEHICLE DETECTION SYSTEMS	09-01-09
22	STAGE 1 CROSS SECTIONS	TR-1208_02	METAL SIGN POSTS AND SIGN MOUNTING DETAILS	09-01-09
23	STAGE 2 CROSS SECTIONS	TR-1210_03	SPECIAL DETAILS & PAVEMENT MARKINGS FOR TWO-WAY HWYS	09-01-09
24	TEMPORARY SIGNAL PLAN	TR-1220_01	SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS	09-01-09
25	DETOUR PLAN	TR-1220_02	CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES	09-01-09

LEGEND

- (S)— EXISTING SANITARY SEWER
- (D)— EXISTING STORM SEWER
- (S)(SIZE)— EXISTING GAS MAIN
- (E)— EXISTING ELECTRICAL DUCT
- (T)— EXISTING TELECOMMUNICATIONS DUCT
- (P)— EXISTING UTILITY POLE
- (OH)— EXISTING OVERHEAD WIRES
- (S)— SIGN
- (C)— EXISTING CATCH BASIN
- (S)— PROPOSED GAS MAIN
- (E)— PROPOSED ELECTRICAL DUCT
- (T)— PROPOSED TELECOMMUNICATIONS DUCT
- (C)— PROPOSED CABLE DUCT
- (R)— PROPOSED RIPRAP

BOROUGH OF NAUGATUCK

MAYOR ROBERT A. MEZZO

BOROUGH ENGINEER WAYNE ZIROLI, P.E.

4/26/2012

DATE

4/2/2012

DATE

DESIGNED BY: CLOUGH, HARBOUR & ASSOCIATES LLP

PER: Rodney A. Bascom

DATE:

5/11/2012

DATE:



CHA

CLOUGH HARBOUR & ASSOCIATES LLP
2138 Silas Deane Highway, Suite 212, Rocky Hill, CT 06067-2336
Main: (860) 267-4557 www.cloughharbour.com

SUMMARY OF QUANTITIES

ITEM DESCRIPTION	UNIT	QUANTITY
BRIDGE PLAQUE	EA.	1 **
EARTH EXCAVATION	C.Y.	100
ROCK EXCAVATION	C.Y.	15
CHANNEL EXCAVATION-EARTH	C.Y.	800
REMOVAL OF GRANITE STONE CURBING	L.F.	485
CUT BITUMINOUS CONCRETE PAVEMENT	L.F.	225
COFFERDAM AND DEWATERING	LF	1250
ROCK IN TRENCH EXCAVATION 0'-10' DEEP	C.Y.	150
PROCESSED AGGREGATE BASE	C.Y.	10
BRICK PAVING	S.F.	7600 **
HMA S0.5	TON	130
HMA S0.375	TON	80
MATERIAL FOR TACK COAT	GAL.	145
MILLING OF HOT MIX ASPHALT (HMA) - 0-4 INCHES	S.Y.	925
TYPE "C" CATCH BASIN TOP	EA.	4
TYPE "C" CATCH BASIN - FRAME AND GRATE	EA.	4
RESET TYPE "C" CATCH BASIN	EA.	4
POLYVINYL CHLORIDE PLASTIC PIPE WEEPHOLES	EA.	5
CONSTRUCT WEEP DRAINS	EA.	9
PRECAST CONCRETE ARCHITECTURAL PANELS (SITE NO. 1)	L.S.	1
VARIABLE DEPTH PATCH	C.F.	5000
CLASS "F" CONCRETE	C.Y.	450
LIGHTWEIGHT CONCRETE	C.Y.	400 **
ASPHALTIC PLUG EXPANSION JOINT SYSTEM	L.F.	80
DEFORMED STEEL BARS	LB.	13000
DEFORMED STEEL BARS-EPOXY COATED	LB.	35000
DOWEL BAR SPLICER SYSTEM	EA.	4700
DRILLING HOLES AND GROUTING DOWELS	EA	550
SPECIAL PAINTING TREATMENT	S.F.	3200 **
TEMPORARY SLAB SUPPORT	L.F.	400
DIMENSION STONE MASONRY	S.Y.	3
REPOINT MORTAR JOINTS	L.F.	700
ROUNDED STONE RIPRAP	C.Y.	800
MEMBRANE WATERPROOFING (WOVEN GLASS FABRIC)	S.Y.	850
GEOTEXTILE	S.Y.	400
CONCRETE CURBING	L.F.	20
5" GRANITE STONE CURBING	L.F.	100
5" GRANITE CURVED STONE CURBING	L.F.	52
RESET GRANITE STONE CURBING	L.F.	15
TEMPORARY PRECAST CONCRETE BARRIER CURB	L.F.	150
TEMPORARY PRECAST CONCRETE BARRIER CURB (STRUCTURE)	L.F.	180
RELOCATED TEMPORARY PRECAST CONCRETE BARRIER CURB (STRUCTURE)	L.F.	180
REMOVAL OF EXISTING METAL BRIDGE RAIL	L.F.	360
CONCRETE SIDEWALK	S.F.	1800
RETRO-FIT DETECTABLE WARNING STRIP	EA	7
CONSTRUCTION FIELD OFFICE, SMALL	MO.	20
TRAFFICPERSON (MUNICIPAL POLICE OFFICER)	EST.	1 *
MAINTENANCE AND PROTECTION OF TRAFFIC	L.S.	1
REMOVAL OF EXISTING MASONRY	C.Y.	750
MOBILIZATION	L.S.	1
TRAFFIC DRUM	EA.	30
CONSTRUCTION BARRICADE TYPE III	EA.	15
DISPOSAL OF BUILDINGS	L.S.	1 **
TRENCHING AND BACKFILLING (TYPE I)	L.F.	670
TRENCHING AND BACKFILLING (TYPE II)	L.F.	125
TRENCHING AND BACKFILLING (TYPE III)	L.F.	130
REMOVE LIGHT STANDARD	EA.	2
4" POLYVINYL CHLORIDE CONDUIT IN STRUCTURE	L.F.	380
4" POLYVINYL CHLORIDE CONDUIT UNDER ROADWAY	L.F.	950
5" POLYVINYL CHLORIDE CONDUIT UNDER ROADWAY	L.F.	1110
2" RIGID METAL CONDUIT UNDER ROADWAY	L.F.	155
2" RIGID METAL CONDUIT IN STRUCTURE	L.F.	340
5" FIBERGLASS CONDUIT - HEAVY WALL	L.F.	1520
8" X 8" X 8" CAST IRON JUNCTION BOX	EA.	4
INSTALL PRECAST CONCRETE MANHOLE	EA.	2
TEMPORARY SIGNALIZATION (SITE 1)	L.S.	1

SUMMARY OF QUANTITIES

ITEM DESCRIPTION	UNIT	QUANTITY
REMOVAL OF EXISTING SIGNING	L.S.	1
SIGN FACE - SHEET ALUMINUM (TYPE IIREFLECTIVE SHEETING)	S.F.	40
ORNAMENTAL SIGN POST	EA.	4
PAINTED PAVEMENT MARKINGS (4") (WHITE)	L.F.	725
PAINTED PAVEMENT MARKINGS (4") (YELLOW)	L.F.	1120
PAINTED PAVEMENT MARKINGS (12") (WHITE)	L.F.	260
PAINTED LEGEND, ARROWS AND MARKINGS	S.F.	1400
REMOVAL OF PAINTED PAVEMENT MARKINGS	S.F.	180
TEMPORARY PLASTIC PAVEMENT MARKING TAPE (4") (YELLOW)	L.F.	600
TEMPORARY PLASTIC PAVEMENT MARKING TAPE (4") (WHITE)	L.F.	620
TEMPORARY PLASTIC PAVEMENT MARKING TAPE (12") (WHITE)	L.F.	30
TEMPORARY PLASTIC LEGEND ARROWS AND MARKINGS	S.F.	175
CONSTRUCTION SIGNS (TYPE IIREFLECTIVE SHEETING)	S.F.	400
TEMPORARY SUPPORT FOR EXISTING TELEPHONE DUCTS	L.S.	1
TEMPORARY IMPACT ATTENUATION SYSTEM TYPE A (TL-2)	EA.	2
RELOCATION OF TEMPORARY IMPACT ATTENUATION SYSTEM TYPE A	EA.	2

* A SUM HAS BEEN INSERTED FOR BIDDING PURPOSES, HOWEVER THIS ITEM IS TO BE PAID BY THE ACTUAL COST AS DESCRIBED IN THE SPECIFICATIONS.

** TOWN MAY CONSIDER ELIMINATING THESE ITEMS FROM THE CONTRACT OR USING OTHER BIDS ITEMS FOR THIS WORK AT THEIR DISCRETION. NO COMPENSATION WILL BE MADE TO THE CONTRACTOR FOR ELIMINATING THESE ITEMS.



NOTE: THIS IS A REHABILITATION PROJECT AND QUANTITIES MAY VARY SIGNIFICANTLY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR WILL BE PAID FOR THE ACTUAL QUANTITY OF ITEMS INSTALLED. NO ADJUSTMENT IN UNIT PRICES WILL BE MADE FOR QUANTITIES LESS THAN OR EXCEEDING THOSE SHOWN.

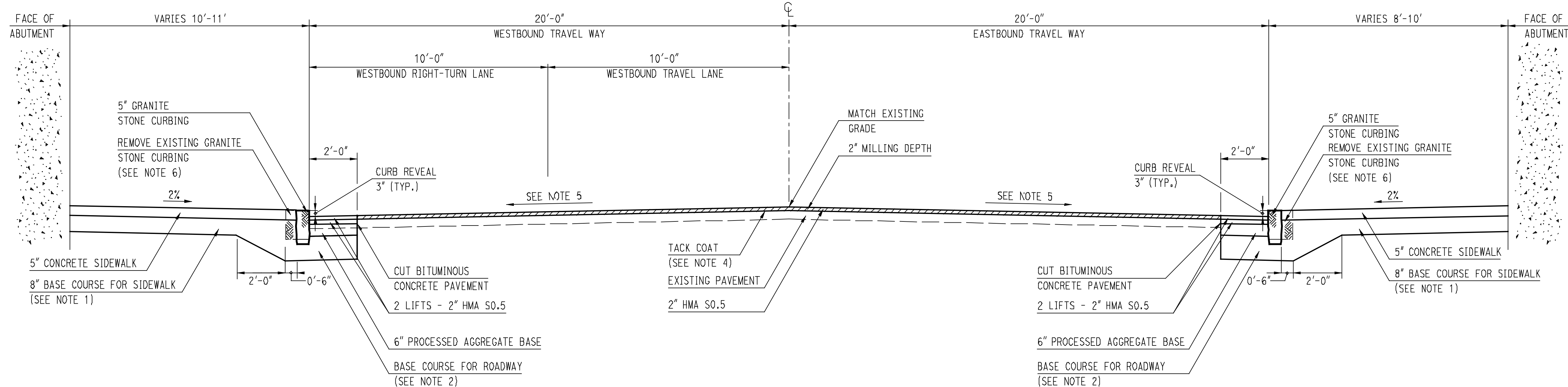
GENERAL NOTES:

- DESIGN SPECIFICATIONS: ALL ROAD, DRAINAGE AND STRUCTURAL WORK (AND APPURTENANT WORK) SHALL BE PERFORMED IN ACCORDANCE WITH THE TECHNICAL REQUIREMENTS, INCLUDING MATERIALS AND METHODS, OF THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION, FORM 816, 2004 (INCLUDING ADDENDUMS AND SUPPLEMENTALS) UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.
- CTDOT STANDARD SHEETS: THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE CONNECTICUT DEPARTMENT OF TRANSPORTATION (CTDOT) STANDARD SHEETS LISTED ON THE TITLE SHEET. THESE SHEETS CAN BE OBTAINED DIRECTLY FROM THE DEPARTMENT AND/OR DOWNLOADED FROM THE DEPARTMENT'S WEBSITE AT WWW.CT.GOV/DOT.
- DATUM: HORIZONTAL CONTROL - NAD 83
VERTICAL CONTROL - NAVD 88
- DESIGN SPEED: 25 MPH.
- MUTCD: ALL PERMANENT AND TEMPORARY TRAFFIC CONTROL DEVICES INCLUDING TRAFFIC SIGNS, CONSTRUCTION SIGNS, PAVEMENT MARKINGS, AND CHANNELIZATION DEVICES SHALL MEET THE REQUIREMENTS OF, AND BE INSTALLED/PLACED IN ACCORDANCE WITH, THE DIMENSIONS AND LOCATIONS SPECIFIED IN THE 2009 EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
- REMOVED MATERIALS: THE BOROUGH OF NAUGATUCK WILL BE PROVIDED THE OPTION OF RETAINING THE POSSESSION OF ALL MATERIALS REMOVED OR EXCAVATED IN THE COURSE OF EXECUTING THIS PROJECT. ANY MATERIALS RETAINED BY THE BOROUGH SHALL BE DELIVERED TO A SITE WITHIN BOROUGH LIMITS AS DESIGNATED BY THE BOROUGH AT NO ADDITIONAL COST TO THE BOROUGH OF NAUGATUCK. ALL MATERIALS NOT RETAINED BY THE BOROUGH SHALL BE PROPERLY DISPOSED OF AT NO ADDITIONAL COST TO THE BOROUGH OF NAUGATUCK.
- EXCAVATED MATERIALS: ANY EXCAVATED MATERIALS DEEMED BY THE ENGINEER AS BEING SUITABLE FOR RE-USE SHALL BE STOCKPILED ON THE JOB SITE AS DIRECTED BY THE ENGINEER FOR FUTURE USE AS BACKFILL. NO ADDITIONAL PAYMENT WILL BE MADE FOR STOCKPILING MATERIAL, FOR RE-USE AS BACKFILL, OR FOR THE REMOVAL OF SURPLUS STOCKPILED MATERIAL NOT UTILIZED ON THE PROJECT. THE COST OF STOCKPILING IS TO BE INCLUDED IN THE "STRUCTURE EXCAVATION EARTH" ITEM.
- PAY ITEMS: TECHNICAL SPECIFICATIONS SHALL BE IN ACCORDANCE WITH STATE OF CONNECTICUT FORM 816 (SEE NOTE 1). SOME OF THESE TECHNICAL ITEMS HAVE BEEN COMBINED FOR PAYMENT PURPOSES, AND THEREFORE, PAYMENT WILL ONLY BE MADE ACCORDING TO THE PAY ITEMS LISTED IN THE BID DOCUMENT FORMS PROVIDED. ALL MATERIALS, TOOLS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THE WORK AS DETAILED ON THESE PLANS SHALL BE INCLUDED IN CONTRACT PAY ITEMS. ANY WORK NOT SPECIFICALLY LABELED BUT NECESSARY TO COMPLETE THE WORK SHALL BE CONSIDERED INCIDENTAL.
- 'CALL BEFORE YOU DIG': EXISTING STORM DRAIN, SANITARY SEWER, GAS, ELECTRIC, TELECOMMUNICATIONS AND OTHER UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ON THE PLANS. THE CONTRACTOR SHALL CONTACT 'CALL BEFORE YOU DIG' AT (800) 922-4455 THREE DAYS PRIOR TO BEGINNING ANY SUBSURFACE CONSTRUCTION ACTIVITIES TO DETERMINE THE LOCATIONS OF THESE AND ANY OTHER BURIED UTILITIES NOT SHOWN ON THE PLANS.
- DRAINAGE STRUCTURES: STATIONINGS AND TOP OF FRAME (TF) ELEVATIONS ARE MEASURED FROM THE LONGITUDINAL CENTER OF EACH STRUCTURE AT THE FACE OF CURB OR EDGE OF PAVEMENT, WHICHEVER APPLIES.
- UTILITIES: UTILITY DESIGN HAS BEEN COORDINATED WITH THE RESPECTIVE UTILITY COMPANIES FOR TELEPHONE, GAS, ELECTRIC, AND CABLE. THE CONTRACTOR SHALL UTILIZE THE FOLLOWING CONTACTS WHEN DIRECTED TO CONTACT UTILITIES:

AT&T (TELEPHONE)	CL&P (ELECTRIC)
TOM DELORENZO (203) 238-5202	BRIAN MORGAN (203) 597-4233
OR	
GLEN MCLOUD (203) 575-6703	COMCAST (CABLE)
	DAVE GERRISH (203) 732-0146 EXT 73801
YANKEE GAS (GAS)	
ROB PANTALONE (203) 596-3020	
- EXCAVATION: FINAL EXCAVATION LIMITS SHALL BE DETERMINED IN THE FIELD, TO THE APPROVAL OF THE ENGINEER. WHERE PAYMENT IS NOT OTHERWISE SPECIFIED, PAYMENT SHALL BE UNDER THE "EARTH EXCAVATION", "ROCK EXCAVATION" OR "REMOVE EXISTING MASONRY" ITEMS, AS APPROVED BY THE ENGINEER.

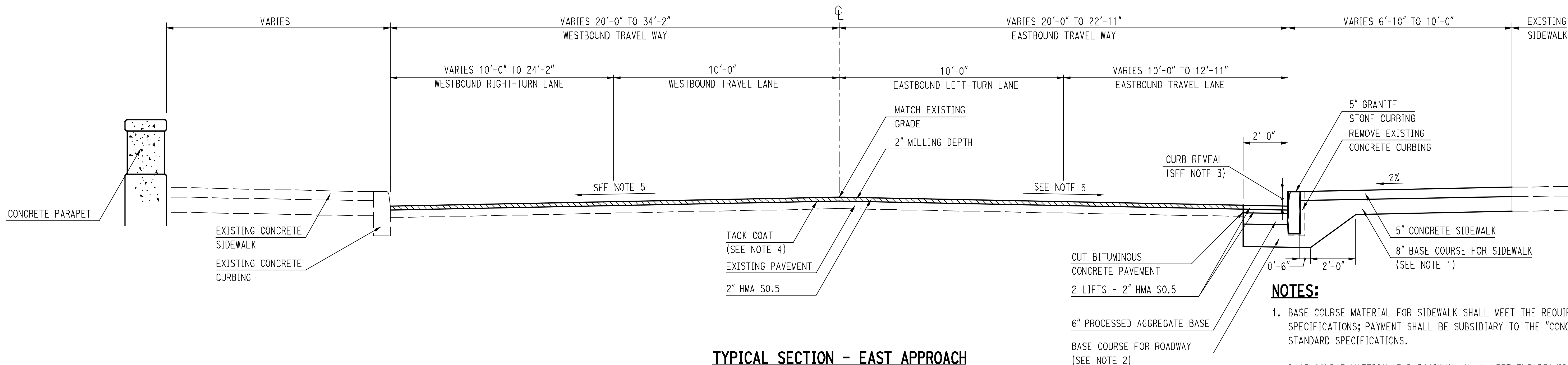
4/4/15 9:59 PM C:\DOT\Workspaces\16319\16319_Gen_Notes.dwg User: jrb\jrb\16319_Gen_Notes.dwg Plot Date: 5/11/2015

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: CRH CHECKED BY: RJF SCALE AS NOTED	 BOROUGH OF NAUGATUCK DEPARTMENT OF PUBLIC WORKS	 CIA CLOUGH HARBOR & ASSOCIATES LLP 2150 Blue Oxen Highway, Suite 212, Rocky Hill, CT 06109-2508 Main: (860) 437-4507 - www.cia-engineers.com	PROJECT TITLE: MAPLE STREET OVER NAUGATUCK RIVER	TOWN: NAUGATUCK	DRAWING TITLE: GENERAL NOTES AND QUANTITIES	PROJECT NO. 9087-4214 DRAWING NO. SHEET NO. 2 of 25	
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plot Date: 5/11/2015				Filename: i:\16319 maple str\01\cad\highway\16319_Gen_Notes_sht.dgn



**TYPICAL SECTION - WEST APPROACH
MAPLE STREET**

STA. 9+40.0 TO STA. 10+64.4
NOT TO SCALE



**TYPICAL SECTION - EAST APPROACH
MAPLE STREET**

STA. 12+68.2 TO STA. 12+83.0
NOT TO SCALE

NOTES:

1. BASE COURSE MATERIAL FOR SIDEWALK SHALL MEET THE REQUIREMENTS OF SECTION M.02.01 OF THE STANDARD SPECIFICATIONS; PAYMENT SHALL BE SUBSIDIARY TO THE "CONCRETE SIDEWALK" ITEM PER SECTION 9.21 OF THE STANDARD SPECIFICATIONS.
2. BASE COURSE MATERIAL FOR ROADWAY SHALL MEET THE REQUIREMENTS OF M.02.03 OF THE STANDARD SPECIFICATIONS; PAYMENT SHALL BE SUBSIDIARY TO THE APPLICABLE CURBING ITEM IN THAT LOCATION. BASE COURSE FOR ROADWAY SHALL BE PROVIDED TO A DEPTH 6 INCHES BELOW THE BOTTOM OF STONE CURBING, IN LOCATIONS WHERE STONE CURBING IS TO BE INSTALLED.
3. TRANSITION CURB REVEAL FROM 3" AT STA. 12+59.9 TO MATCH EXISTING AT STA. 12+83, RT.
4. TACK COAT TO BE APPLIED AT A RATE OF 0.15 GALLONS PER SQUARE YARD TO ALL MILLED SURFACES, SURFACES THAT HAVE BEEN IN PLACE LONGER THAN FIVE DAYS, AND ON ANY COLD JOINT, PRIOR TO ANY PAVING OPERATION. PAYMENT UNDER THE "MATERIAL FOR TACK COAT" ITEM.
5. MATCH EXISTING TRAVEL WAY CROSS SLOPE AT STA. 9+40.0, TRANSITION TO 2% AT STA. 10+64.4. TRANSITION CROSS SLOPE FROM 2% AT STA. 12+68.2 TO MATCH EXISTING AT STA. 12+83.
6. REMOVE AND SALVAGE EXISTING GRANITE STONE CURBING. THE CONTRACTOR SHALL DELIVER THE SALVAGED CURBING TO A LOCATION SPECIFIED BY THE BOROUGH OF NAUGATUCK OR AS DIRECTED BY THE ENGINEER.

4/4/12 12:12 PM I:\Projects\121112\Maple Street\121112\Maple Street\121112\121112.tpd. sht.dgn

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

DESIGNER/DRAFTER: **CRH**
CHECKED BY: **RJF**
SCALE AS NOTED

BOROUGH OF NAUGATUCK
DEPARTMENT OF PUBLIC WORKS

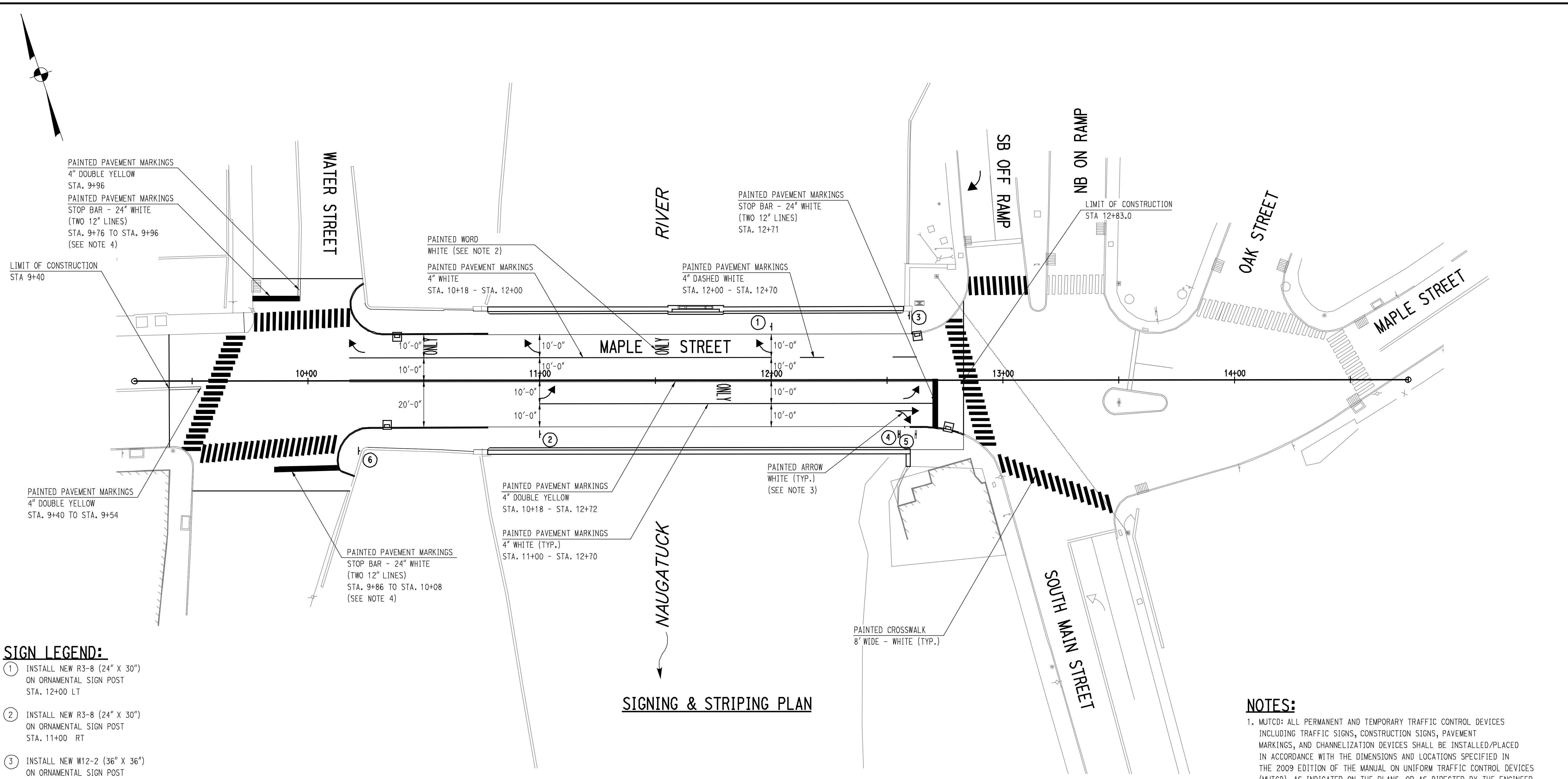
File name: i:\16319 maple str\east\121112\121112.tpd.sht.dgn

SIGNATURE BLOCK

CIA
CLOUGH HARBOR & ASSOCIATES LLP
2150 Blue Cove Highway, Suite 212, Rocky Hill, CT 06067-2508
Tel: (860) 261-4507 - www.cia-engineers.com

PROJECT TITLE: **MAPLE STREET OVER NAUGATUCK RIVER**

TOWN: NAUGATUCK	PROJECT NO.: 9087-4214
DRAWING TITLE: TYPICAL SECTIONS	DRAWING NO.:
	SHEET NO.: 4 of 25



SIGN LEGEND:

- ① INSTALL NEW R3-8 (24" X 30") ON ORNAMENTAL SIGN POST STA. 12+00 LT
- ② INSTALL NEW R3-8 (24" X 30") ON ORNAMENTAL SIGN POST STA. 11+00 RT
- ③ INSTALL NEW W12-2 (36" X 36") ON ORNAMENTAL SIGN POST STA. 12+59 LT
- ④ REMOVE EXISTING AND INSTALL M4-5 (24" X 12"), M3-3 ("SOUTH", 24" X 12"), M1-5 (8", 24" X 24"), M6-1 (RT, 21" X 15") ON ORNAMENTAL SIGN POST STA. 12+55 RT
- ⑤ REMOVE EXISTING AND INSTALL M4-5 (24" X 12"), M3-3 ("SOUTH", 24" X 12"), M1-5 (8", 24" X 24"), M6-1 (LT, 21" X 15") BACK TO BACK WITH SIGN ASSEMBLY 4. STA. 12+55 RT
- ⑥ REMOVE EXISTING R12-5 STA. 10+22 RT

NOTES:


- 1. MUTCD: ALL PERMANENT AND TEMPORARY TRAFFIC CONTROL DEVICES INCLUDING TRAFFIC SIGNS, CONSTRUCTION SIGNS, PAVEMENT MARKINGS, AND CHANNELIZATION DEVICES SHALL BE INSTALLED/PLACED IN ACCORDANCE WITH THE DIMENSIONS AND LOCATIONS SPECIFIED IN THE 2009 EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
- 2. SEE CTDOT STANDARD SHEET TR-1210.03: SPECIAL DETAILS AND PAVEMENT MARKINGS FOR TWO-WAY HIGHWAYS FOR PAVEMENT ARROW, CROSSWALK AND OTHER APPLICABLE DETAILS. SEE 2009 EDITION OF THE MUTCD FOR ALL OTHER DETAILS.
- 3. PAVEMENT MARKING ARROWS AND WORDS ARE SHOWN SCHEMATICALLY, FINAL PLACEMENT SHALL BE AT THE DISCRETION OF THE ENGINEER.
- 4. PAINTED STOP BARS (STA. 9+86 TO STA. 10+08 AND STA. 9+76 TO STA. 9+96) SHALL BE LOCATED A MINIMUM OF 4' FROM THE ADJACENT PAINTED CROSSWALK. SEE CTDOT STANDARD SHEET TR-1210.03: SPECIAL DETAILS AND PAVEMENT MARKINGS FOR TWO-WAY HIGHWAYS.

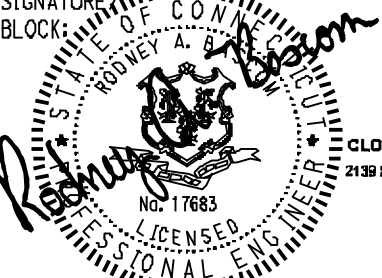

SIGNING & STRIPING PLAN

4:45:16 PM
 C:\Users\jw\Documents\Projects\Naugatuck\Maple Street\Maple Street\Maple Street.dwg
 5/11/2012

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

DESIGNER/DRAWER:	CRH
CHECKED BY:	RJF
SCALE IN FEET	0 20 40
SCALE	1"=20'


BOROUGH OF NAUGATUCK
 DEPARTMENT OF PUBLIC WORKS



CIA
 CLOUGH HARBOUR & ASSOCIATES LLP
 2120 State Street, Suite 212, Rocky Hill, CT 06067-2220
 Phone: (860) 371-4527 • www.cia-naugatuck.com

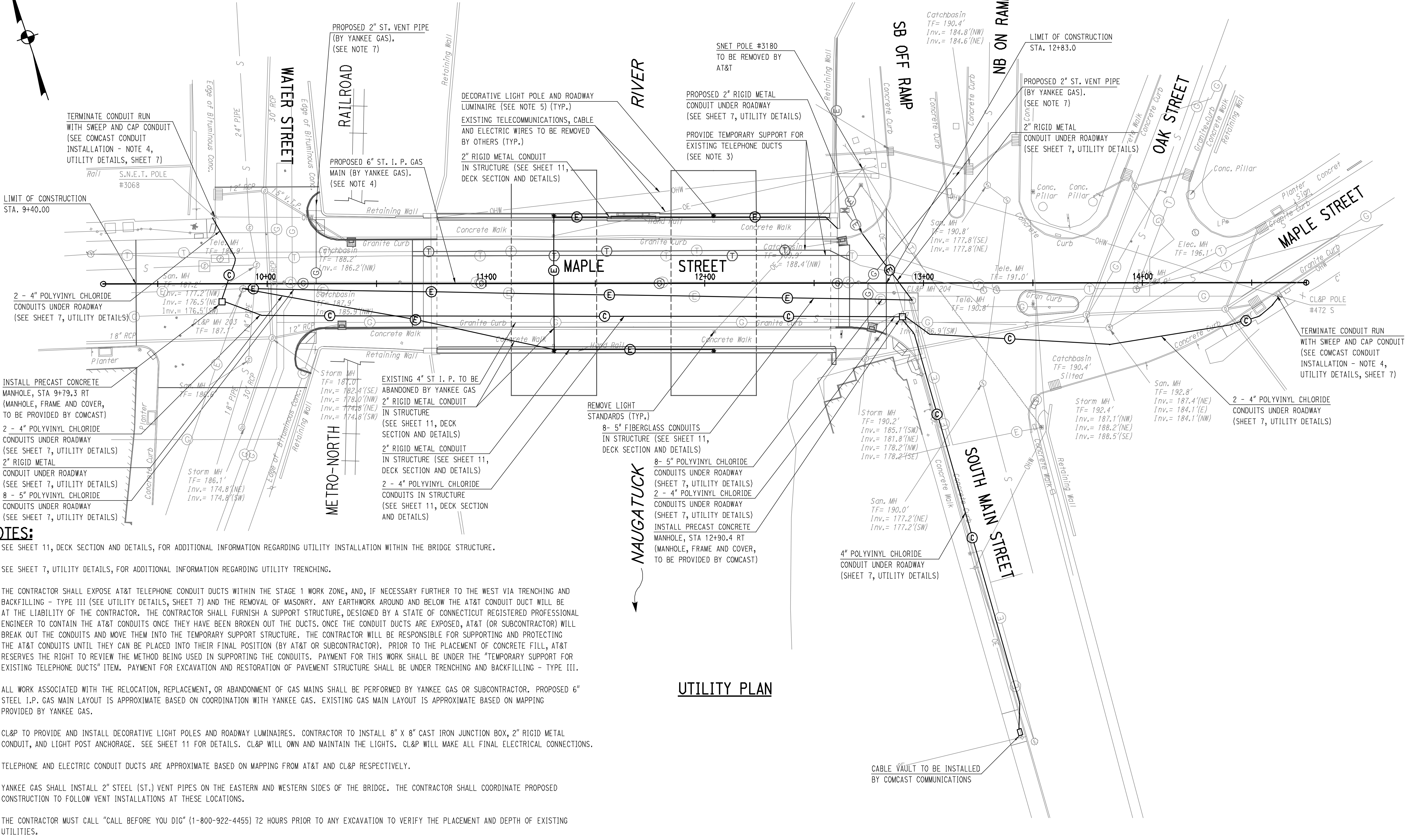
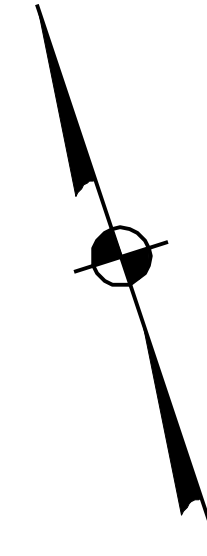
PROJECT TITLE:
MAPLE STREET OVER NAUGATUCK RIVER

TOWN:
NAUGATUCK

DRAWING TITLE:
SIGNING AND STRIPING PLAN

PROJECT NO.:
9087-4214

SHEET NO.:
5 of 25

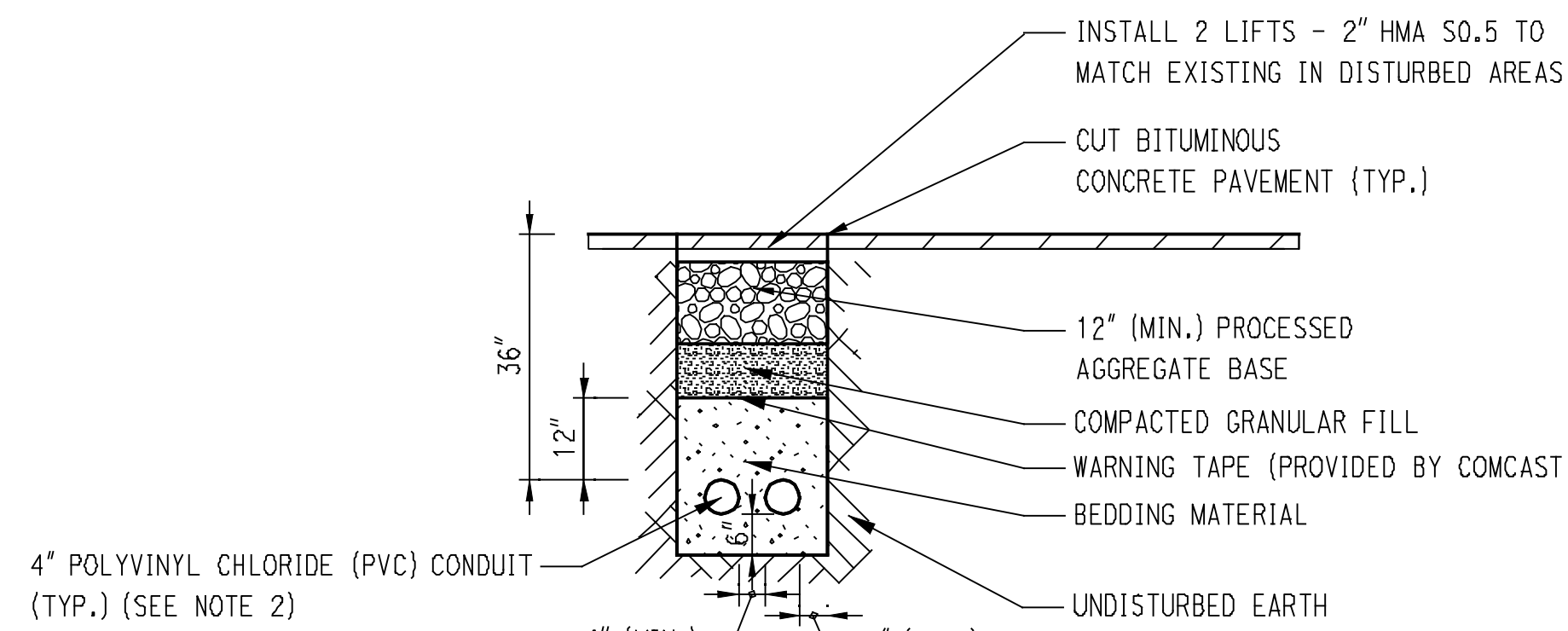


- NOTES:**
- SEE SHEET 11, DECK SECTION AND DETAILS, FOR ADDITIONAL INFORMATION REGARDING UTILITY INSTALLATION WITHIN THE BRIDGE STRUCTURE.
 - SEE SHEET 7, UTILITY DETAILS, FOR ADDITIONAL INFORMATION REGARDING UTILITY TRENCHING.
 - THE CONTRACTOR SHALL EXPOSE AT&T TELEPHONE CONDUIT DUCTS WITHIN THE STAGE 1 WORK ZONE, AND, IF NECESSARY FURTHER TO THE WEST VIA TRENCHING AND BACKFILLING - TYPE III (SEE UTILITY DETAILS, SHEET 7) AND THE REMOVAL OF MASONRY. ANY EARTHWORK AROUND AND BELOW THE AT&T CONDUIT DUCT WILL BE AT THE LIABILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL FURNISH A SUPPORT STRUCTURE, DESIGNED BY A STATE OF CONNECTICUT REGISTERED PROFESSIONAL ENGINEER TO CONTAIN THE AT&T CONDUITS ONCE THEY HAVE BEEN BROKEN OUT THE DUCTS. ONCE THE CONDUIT DUCTS ARE EXPOSED, AT&T (OR SUBCONTRACTOR) WILL BREAK OUT THE CONDUITS AND MOVE THEM INTO THE TEMPORARY SUPPORT STRUCTURE. THE CONTRACTOR WILL BE RESPONSIBLE FOR SUPPORTING AND PROTECTING THE AT&T CONDUITS UNTIL THEY CAN BE PLACED INTO THEIR FINAL POSITION (BY AT&T OR SUBCONTRACTOR). PRIOR TO THE PLACEMENT OF CONCRETE FILL, AT&T RESERVES THE RIGHT TO REVIEW THE METHOD BEING USED IN SUPPORTING THE CONDUITS. PAYMENT FOR THIS WORK SHALL BE UNDER THE "TEMPORARY SUPPORT FOR EXISTING TELEPHONE DUCTS" ITEM. PAYMENT FOR EXCAVATION AND RESTORATION OF PAVEMENT STRUCTURE SHALL BE UNDER TRENCHING AND BACKFILLING - TYPE III.
 - ALL WORK ASSOCIATED WITH THE RELOCATION, REPLACEMENT, OR ABANDONMENT OF GAS MAINS SHALL BE PERFORMED BY YANKEE GAS OR SUBCONTRACTOR. PROPOSED 6" STEEL I.P. GAS MAIN LAYOUT IS APPROXIMATE BASED ON COORDINATION WITH YANKEE GAS. EXISTING GAS MAIN LAYOUT IS APPROXIMATE BASED ON MAPPING PROVIDED BY YANKEE GAS.
 - CL&P TO PROVIDE AND INSTALL DECORATIVE LIGHT POLES AND ROADWAY LUMINAIRES. CONTRACTOR TO INSTALL 8" X 8" CAST IRON JUNCTION BOX, 2" RIGID METAL CONDUIT, AND LIGHT POST ANCHORAGE. SEE SHEET 11 FOR DETAILS. CL&P WILL OWN AND MAINTAIN THE LIGHTS. CL&P WILL MAKE ALL FINAL ELECTRICAL CONNECTIONS.
 - TELEPHONE AND ELECTRIC CONDUIT DUCTS ARE APPROXIMATE BASED ON MAPPING FROM AT&T AND CL&P RESPECTIVELY.
 - YANKEE GAS SHALL INSTALL 2" STEEL (ST.) VENT PIPES ON THE EASTERN AND WESTERN SIDES OF THE BRIDGE. THE CONTRACTOR SHALL COORDINATE PROPOSED CONSTRUCTION TO FOLLOW VENT INSTALLATIONS AT THESE LOCATIONS.
 - THE CONTRACTOR MUST CALL "CALL BEFORE YOU DIG" (1-800-922-4455) 72 HOURS PRIOR TO ANY EXCAVATION TO VERIFY THE PLACEMENT AND DEPTH OF EXISTING UTILITIES.

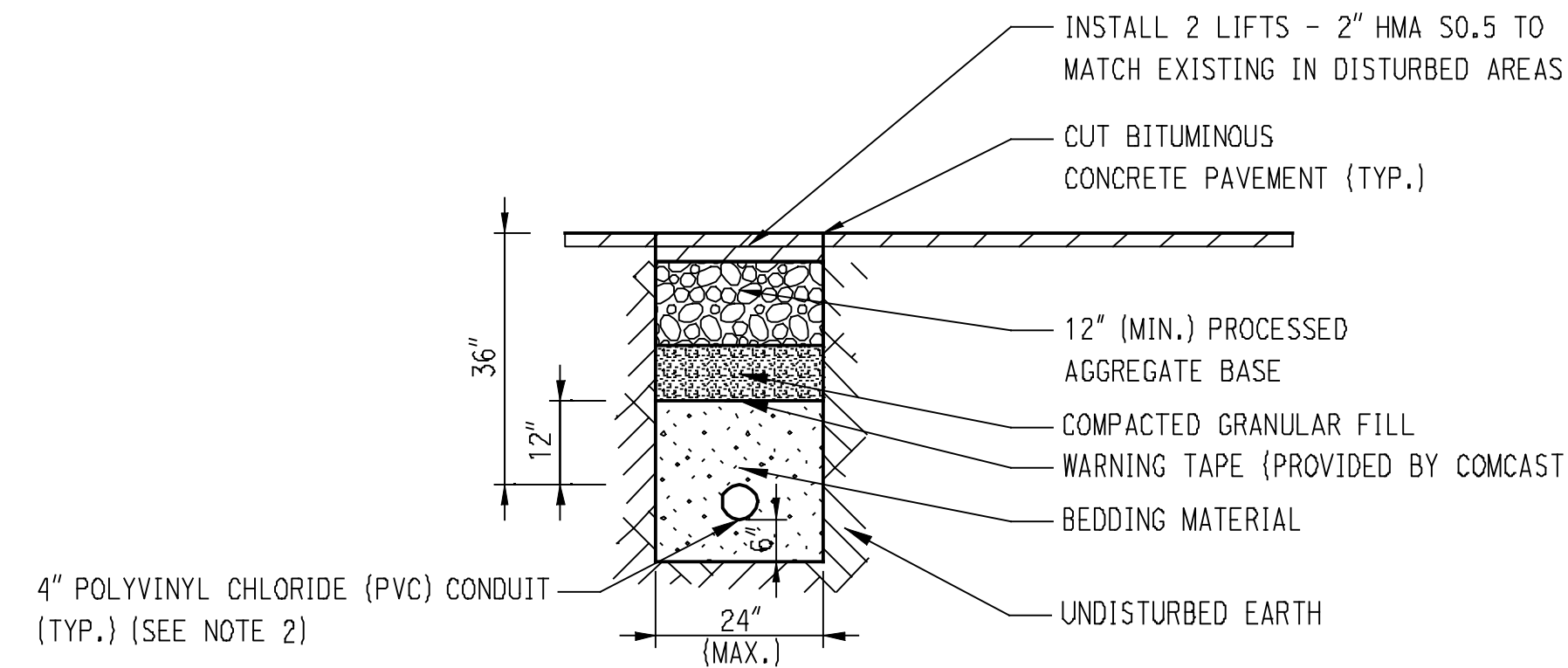
UTILITY PLAN

4/15/20 10:45:20 PM I:\Projects\1907\1907001\1907001.dwg
 5/11/2012 5:11:12 PM I:\Projects\1907\1907001\1907001.dwg

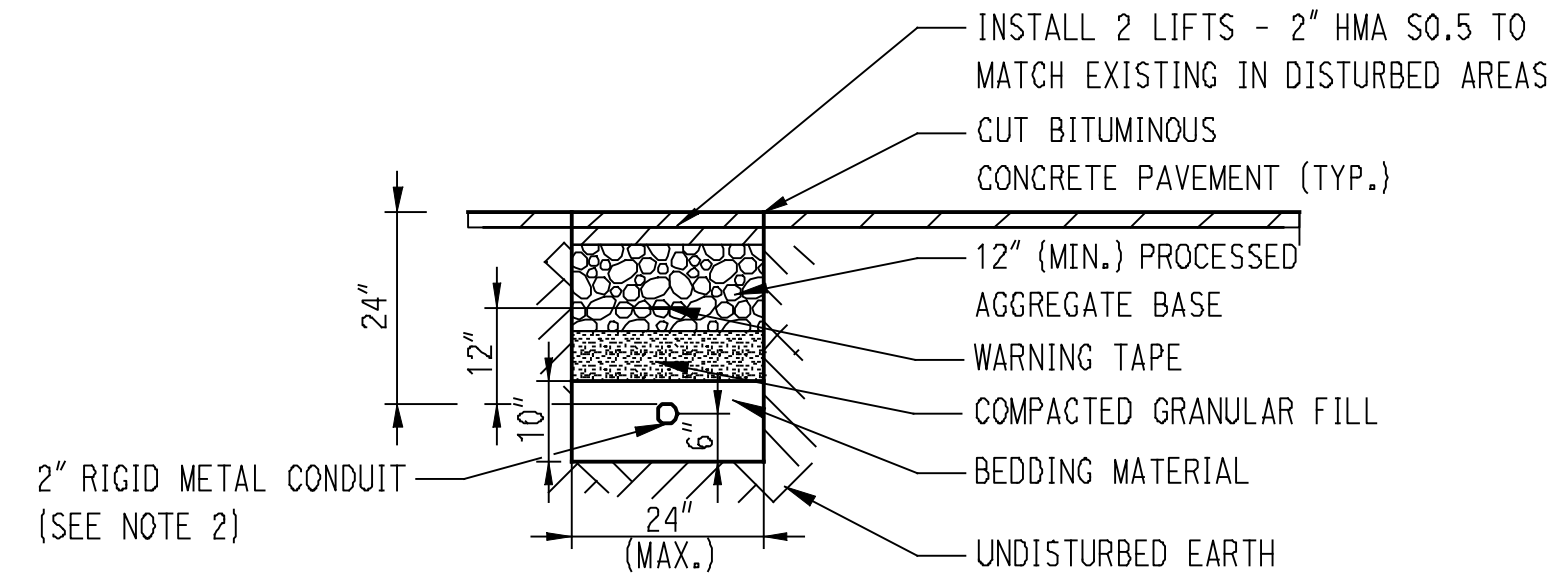
DESIGNER/DRAWN: CRH CHECKED BY: RJF		BOROUGH OF NAUGATUCK DEPARTMENT OF PUBLIC WORKS	CIA CLOUGH HARBOUR & ASSOCIATES LLP 2130 State Street, Suite 212, Rocky Hill, CT 06067-2230 Phone: (860) 451-4527	PROJECT TITLE: MAPLE STREET OVER NAUGATUCK RIVER	TOWN: NAUGATUCK	PROJECT NO.: 9087-4214
REV. DATE REVISION DESCRIPTION SHEET NO.	Plotted Date: 5/11/2012			SCALE IN FEET 0 20 40 SCALE 1"=20'	FILENAME: I:\16319 maple street\road\highway\16319_util\111111.dwg	DRAWING TITLE: UTILITY PLAN



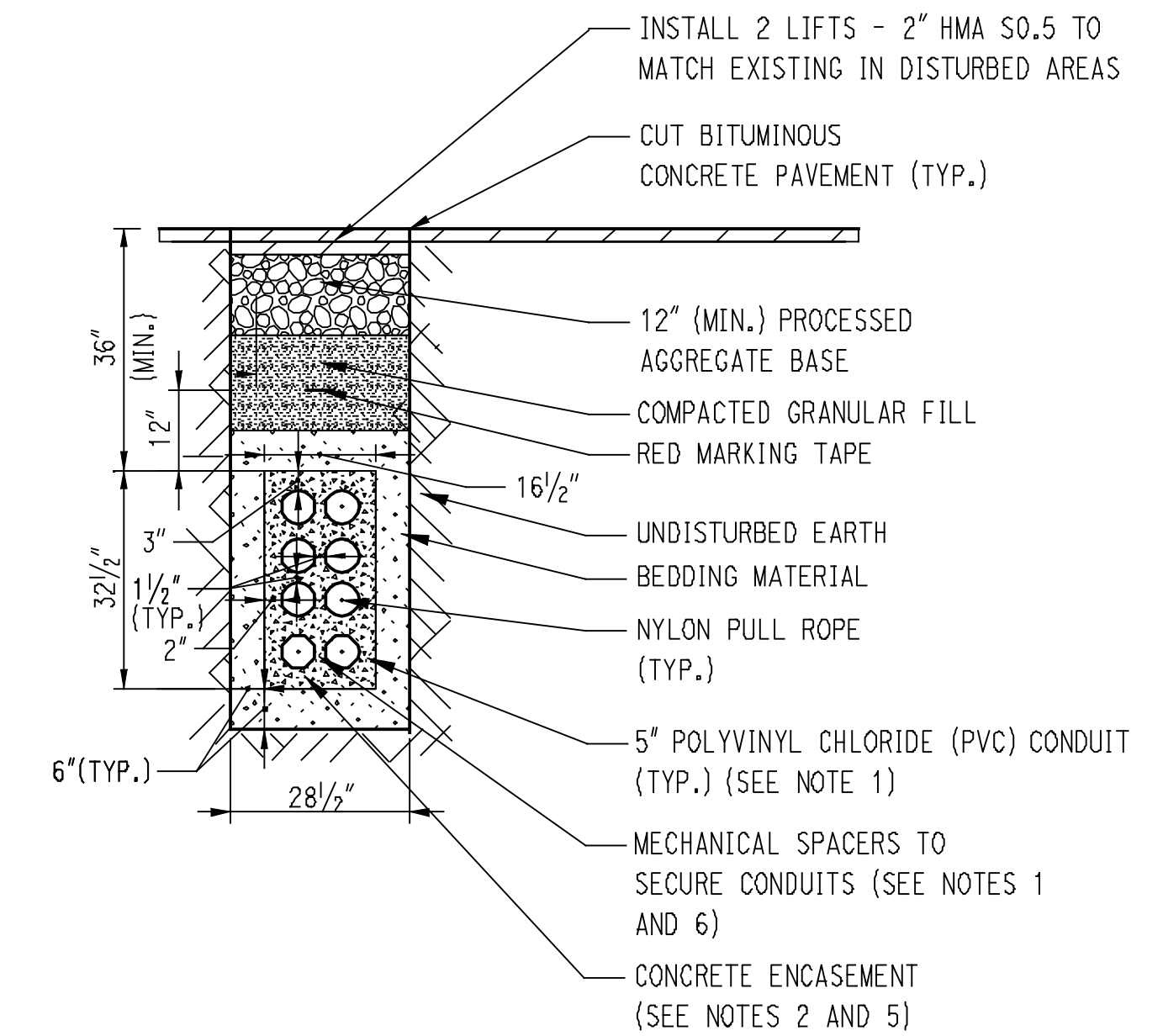
2 - 4" POLYVINYL CHLORIDE CONDUITS UNDER ROADWAY



4" POLYVINYL CHLORIDE CONDUIT UNDER ROADWAY



2" RIGID METAL CONDUIT UNDER ROADWAY



8 - 5" POLYVINYL CHLORIDE CONDUITS UNDER ROADWAY

RIGID METAL CONDUIT INSTALLATION NOTES:

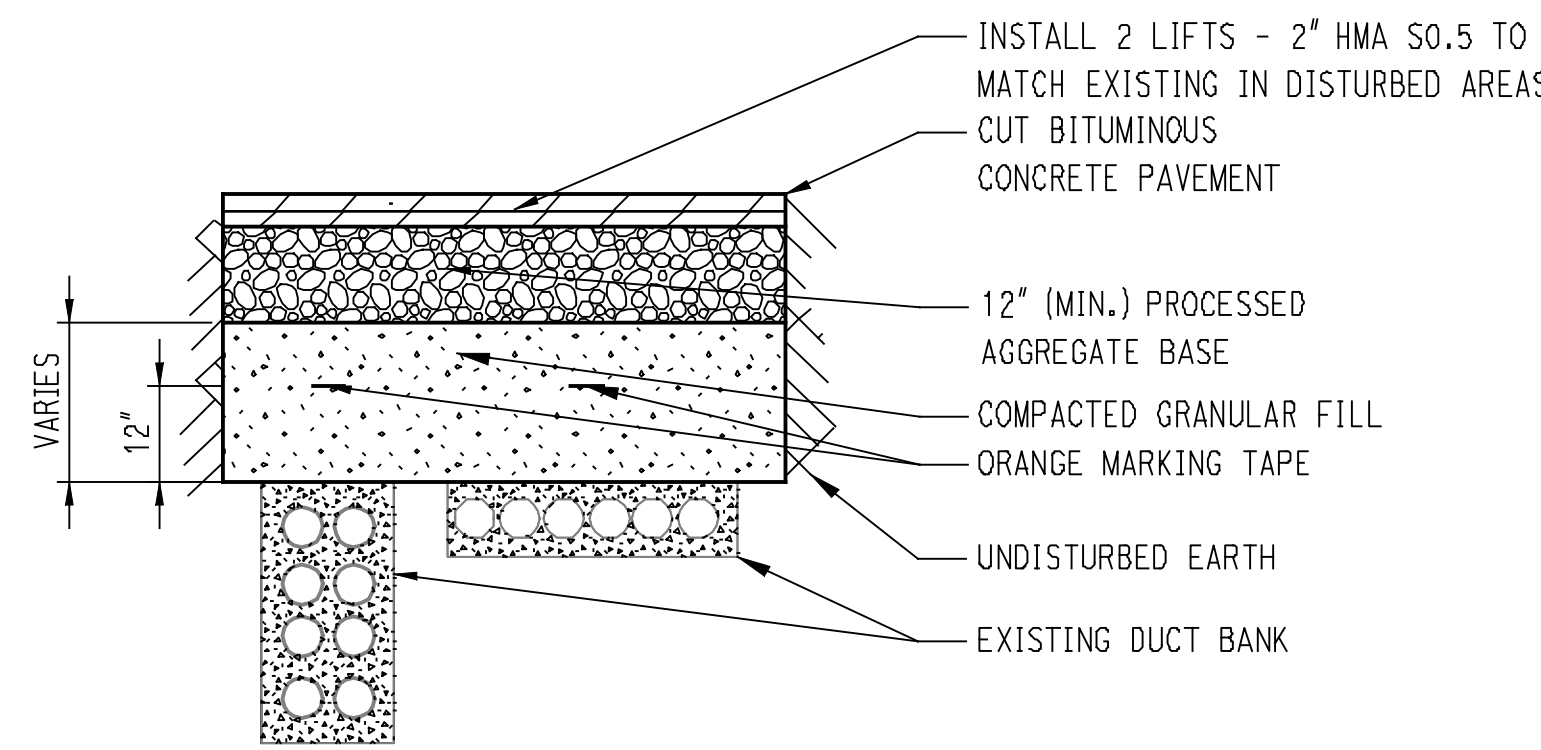
- RIGID METAL CONDUIT RUNS SHALL REQUIRE CROSSING TELEPHONE CONDUIT DUCTS, SANITARY AND STORM SEWER LINES, ELECTRICAL CONDUIT DUCTS, GAS MAINS AND OTHER UTILITIES. SIX INCHES OF SEPARATION SHALL BE PROVIDED BY VARYING THE DEPTH OF THE RIGID METAL CONDUIT OR OTHER PROPOSED CONDUITS. THE WORK AND MATERIALS USED IN CONSTRUCTING THESE CROSSINGS SHALL BE INCLUDED IN THE "2" RIGID METAL CONDUIT UNDER ROADWAY" ITEM.
- 2" RIGID METAL CONDUIT SHALL BE PAID UNDER THE "2" RIGID METAL CONDUIT UNDER ROADWAY" ITEM. ALL INCIDENTAL MATERIALS RELATED TO CONDUIT (FITTINGS, SWEEPS, ETC.) SHALL BE INCLUDED IN THIS ITEM. THIS WORK SHALL CONFORM TO THE SPECIAL PROVISIONS.
- CUTTING OF BITUMINOUS CONCRETE, TRENCH EXCAVATION, SAND BEDDING MATERIAL, WARNING TAPE, BACKFILLING, PAVEMENT, AND ASSOCIATED PROCESSED AGGREGATE BASE, FOR THE INSTALLATION OF 2" RIGID METAL CONDUIT UNDER ROADWAY SHALL BE PAID UNDER THE "TRENCHING AND BACKFILLING, TYPE I". THIS WORK SHALL CONFORM TO THE SPECIAL PROVISIONS.
- CARE SHALL BE TAKEN TO MINIMIZE DISTURBANCE TO RECENT AREAS OF CONSTRUCTION AT THE CORNER OF MAPLE STREET AND THE ROUTE 8 SOUTHBOUND OFF RAMP. THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" TO CONFIRM LOCATION OF THE TWO CAPPED CONNECTION POINTS PRIOR TO START OF THE INSTALLATION OF THOSE RUNS OF CONDUIT. ANY AFFECTED CONCRETE CURBING OR CONCRETE SIDEWALK SHALL BE REPLACED AS DIRECTED BY THE ENGINEER AND PAID UNDER THE "CONCRETE CURBING" AND "CONCRETE SIDEWALK" ITEMS.
- CONDUIT SHALL BE INSTALLED TO AN AREA APPROXIMATELY 2 FEET FROM CL&P MANHOLES #203 AND #204 AND CAPPED. CONDUIT ENTRY INTO CL&P MANHOLES SHALL BE PERFORMED BY CL&P OR SUBCONTRACTOR. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH CL&P'S SUBCONTRACTOR INCIDENTAL TO THE "2" RIGID METAL CONDUIT UNDER ROADWAY" ITEM. CL&P SHALL PULL ELECTRICAL CABLES THROUGH CONDUIT FOLLOWING ACCEPTANCE OF CONDUIT INSTALLATION.

CL&P CONDUIT INSTALLATION NOTES:

- 5" PVC CONDUIT SHALL BE PAID UNDER THE "5" POLYVINYL CHLORIDE CONDUIT UNDER ROADWAY" ITEM. ALL INCIDENTAL MATERIALS RELATED TO CONDUIT (FITTINGS, SWEEPS, SLEEVES, SPACERS, ETC.) SHALL BE INCLUDED IN THIS ITEM. THIS WORK SHALL CONFORM TO THE SPECIAL PROVISIONS. THE PRODUCT SHALL BE APPROVED FOR USE BY CL&P AND THE ENGINEER PRIOR TO CONSTRUCTION.
- CUTTING OF BITUMINOUS CONCRETE, TRENCH EXCAVATION, SAND BEDDING MATERIAL, CONCRETE ENCASUREMENT, RED MARKER TAPE, BACKFILLING, PAVEMENT AND BITUMINOUS SIDEWALK, AND ASSOCIATED AGGREGATE BASE, FOR THE INSTALLATION OF 5" POLYVINYL CHLORIDE CONDUIT UNDER ROADWAY SHALL BE PAID UNDER THE "TRENCHING AND BACKFILLING, TYPE II" ITEM. THIS WORK SHALL CONFORM TO THE SPECIAL PROVISIONS.
- CONDUIT SHALL BE INSTALLED TO AN AREA APPROXIMATELY 2 FEET FROM CL&P MANHOLES #203 AND #204 AND CAPPED. CL&P SHALL PULL ELECTRICAL CABLES THROUGH CONDUIT FOLLOWING ACCEPTANCE OF CONDUIT INSTALLATION. CONDUIT ENTRY INTO CL&P MANHOLES SHALL BE PERFORMED BY CL&P'S SUBCONTRACTOR. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH CL&P'S SUBCONTRACTOR INCIDENTAL TO THE "5" POLYVINYL CHLORIDE CONDUIT UNDER ROADWAY" ITEM.
- VERTICAL ALIGNMENT OF CONDUIT DUCT TO BE ALTERED AT THE DISCRETION OF THE ENGINEER TO AVOID NEW YANKEE GAS GAS MAIN AND STORM SEWER PIPE. WHERE POSSIBLE 1 FOOT OF SEPARATION IS TO BE PROVIDED, UNDER CONSTRAINED CONDITIONS, PROVIDE A MINIMUM OF 6 INCHES OF VERTICAL SEPARATION.
- CONCRETE FOR ENCASUREMENT SHALL BE 2500 PSI, 1/2 INCH MAXIMUM STONE, 6-9 INCHES OF SLUMP OF SUCH CONSISTENCY THAT SPADING WILL ENSURE THE FLOW OF CONCRETE BETWEEN AND UNDER THE INDIVIDUAL DUCTS BUT NOT SO WET AS TO FLOAT THE DUCTS. FOR TIER BUILDUP CONSTRUCTION, A STIFFER CONSISTENCY SHOULD BE USED.
- MECHANICAL SPACERS SHALL BE PROVIDED EVERY 8 LONGITUDINAL FEET (ON CENTER) OF CONDUIT INSTALLATION. SPACERS SHALL CONFORM TO THE SPECIAL PROVISIONS. SPACERS SHALL BE OF THE SAME MATERIAL AND TYPE AS, AND BE APPROVED FOR USE WITH THE CONDUIT BEING USED. SPACERS SHALL BE INCIDENTAL TO THE "5" POLYVINYL CHLORIDE CONDUIT UNDER ROADWAY" ITEM.

COMCAST CONDUIT INSTALLATION NOTES:

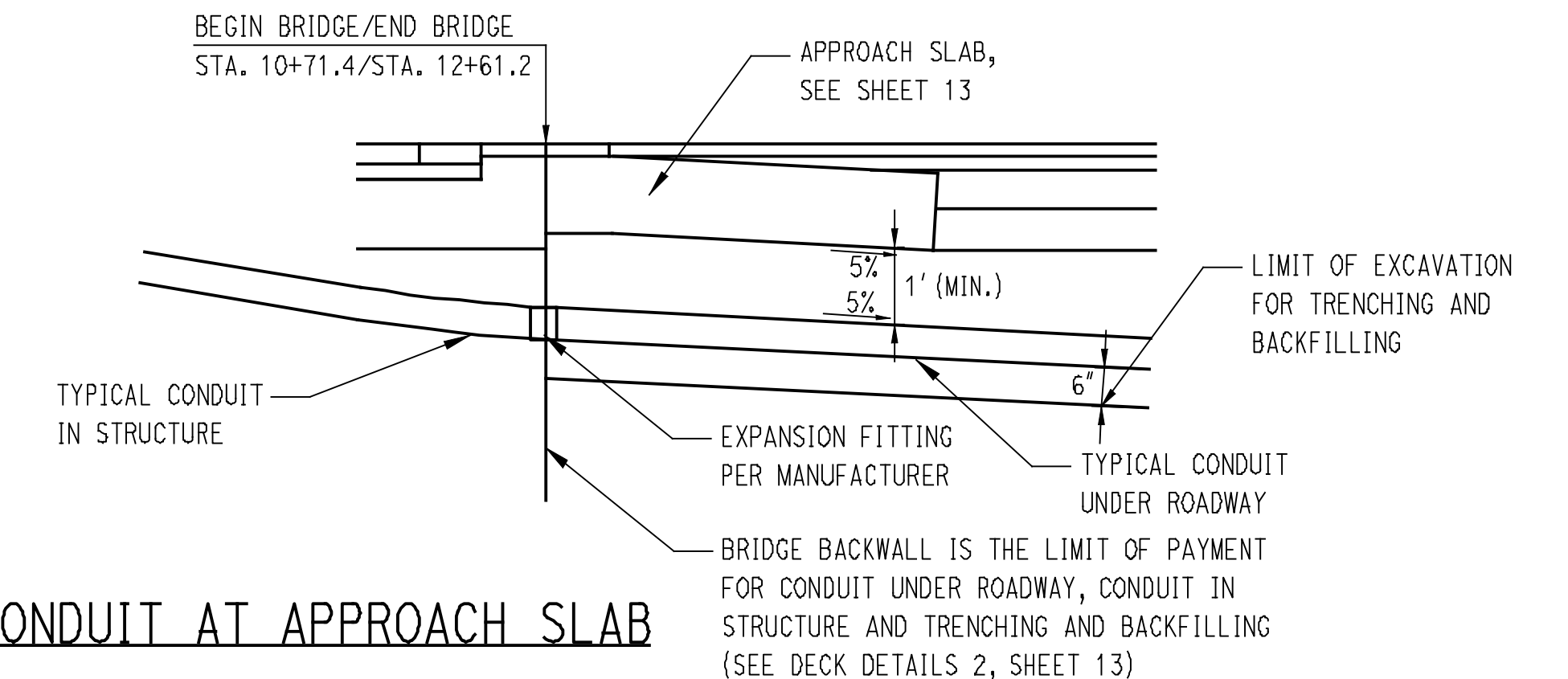
- COMCAST CONDUIT RUNS SHALL REQUIRE CROSSING TELEPHONE CONDUIT DUCTS, SANITARY SEWER LINES, ELECTRICAL CONDUIT DUCTS, GAS MAINS AND OTHER UTILITIES. A MINIMUM OF SIX INCHES OF SEPARATION SHALL BE PROVIDED BY VARYING THE DEPTH OF THE COMCAST CONDUITS OR OTHER PROPOSED CONDUITS. THE WORK AND MATERIALS USED IN CONSTRUCTING THESE CROSSINGS SHALL BE INCLUDED IN THE "4" POLYVINYL CHLORIDE CONDUIT UNDER ROADWAY" ITEM.
- 4" PVC CONDUIT SHALL BE PAID UNDER THE "4" POLYVINYL CHLORIDE CONDUIT UNDER ROADWAY" ITEM. ALL INCIDENTAL MATERIALS RELATED TO CONDUIT (FITTINGS, SWEEPS, ETC.) SHALL BE INCLUDED IN THE "4" POLYVINYL CHLORIDE CONDUIT UNDER ROADWAY" ITEM. THIS WORK SHALL CONFORM TO THE SPECIAL PROVISIONS.
- CUTTING OF BITUMINOUS CONCRETE, TRENCH EXCAVATION, SAND BEDDING MATERIAL, INSTALLATION OF WARNING TAPE, BACKFILLING, PAVEMENT AND BITUMINOUS SIDEWALK, AND ASSOCIATED AGGREGATE BASE, FOR THE INSTALLATION OF 4" PVC CONDUIT UNDER ROADWAY, SHALL BE PAID UNDER THE "TRENCHING AND BACKFILLING, TYPE I" ITEM. THIS WORK SHALL CONFORM TO THE SPECIAL PROVISIONS.
- CONDUIT SHALL BE BROUGHT ABOVE GROUND AND CAPPED AT SNET POLE #3068 AND CL&P POLE #4725 VIA 24" PVC SWEEPS, INCIDENTAL TO 4" PVC CONDUIT UNDER ROADWAY. CONDUIT SHALL BE CAPPED AT ALL MANHOLE LOCATIONS, COMCAST TO MAKE FINAL CONNECTIONS.
- ADJUST ROUTING OF CONDUIT BETWEEN PROPOSED COMCAST MANHOLE, STA. 12+09, RT, AND THE PROPOSED COMCAST VAULT ON SOUTH MAIN STREET AS NECESSARY TO AVOID EXISTING ELECTRICAL CONDUIT DUCT. CARE SHALL BE TAKEN TO MINIMIZE IMPACTS TO THE EXISTING SIDEWALK AND CURBING ON SOUTH MAIN STREET. CONDUIT ROUTING TO BE AT THE DIRECTION OF THE ENGINEER. REMOVE AND RESET GRANITE CURB AND REPLACE CONCRETE SIDEWALK AS NECESSARY, THESE ITEMS SHALL BE PAID UNDER THE "REMOVE AND RESET GRANITE CURB" AND "CONCRETE SIDEWALK" ITEMS.



TRENCHING AND BACKFILLING, TYPE III

TRENCHING AND BACKFILLING, TYPE III NOTES:

- THE DEPTH OF THE EXISTING TELEPHONE CONDUIT DUCTS IS UNKNOWN. THE CONTRACTOR SHALL EXPOSE THE CONCRETE CONDUIT DUCTS AS DIRECTED BY THE ENGINEER IN ORDER TO REPOSITION THE CONDUITS FOR TEMPORARY SUPPORT ON THE BRIDGE. LIMITS OF TRENCHING AND BACKFILLING, TYPE III SHALL BE DETERMINED IN THE FIELD, A QUANTITY HAS BEEN INCLUDED FOR BIDDING PURPOSES.
- THE CONTRACTOR SHALL NOT ATTEMPT TO EXCAVATE AROUND OR BELOW THE EXPOSED CONCRETE CONDUIT DUCT. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE CONDUITS BY ANY EXCAVATION AROUND THE CONDUITS NOT AUTHORIZED BY THE ENGINEER.
- CUTTING OF BITUMINOUS CONCRETE, TRENCH EXCAVATION, MARKER TAPE, BACKFILLING, AND PAVEMENT, SHALL BE PAID UNDER THE "TRENCHING AND BACKFILLING, TYPE III" ITEM. THIS WORK SHALL CONFORM TO THE SPECIAL PROVISIONS.
- THE CONTRACTOR SHALL COORDINATE THIS WORK WITH AT&T. AT&T OR SUBCONTRACTOR WILL BREAK OUT AND MOVE CONDUITS FOLLOWING THE COMPLETION OF THIS WORK. COORDINATION WITH AT&T SHALL BE INCIDENTAL TO THE "TEMPORARY SUPPORT FOR EXISTING TELEPHONE DUCTS" ITEM. BACKFILLING TO OCCUR FOLLOWING RESTORATION OF CONDUITS BY AT&T.



CONDUIT AT APPROACH SLAB

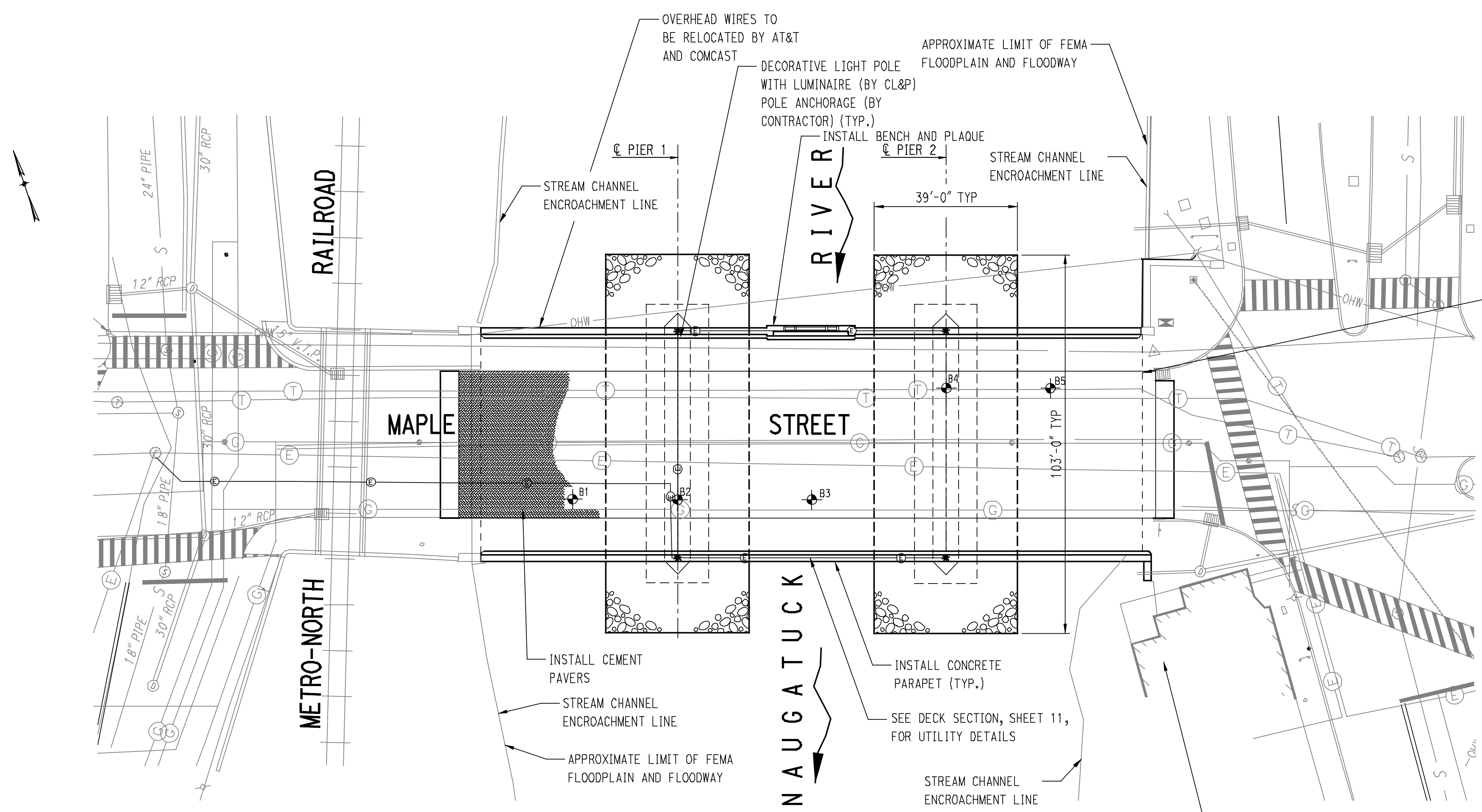
CONDUIT AT APPROACH SLAB NOTES

- ALL CONDUIT FITTINGS AND JOINTS SHALL BE APPROVED BY THE CONDUIT MANUFACTURER FOR USE WITH THE TYPE OF CONDUIT. THIS WORK SHALL CONFORM TO THE SPECIAL PROVISIONS.

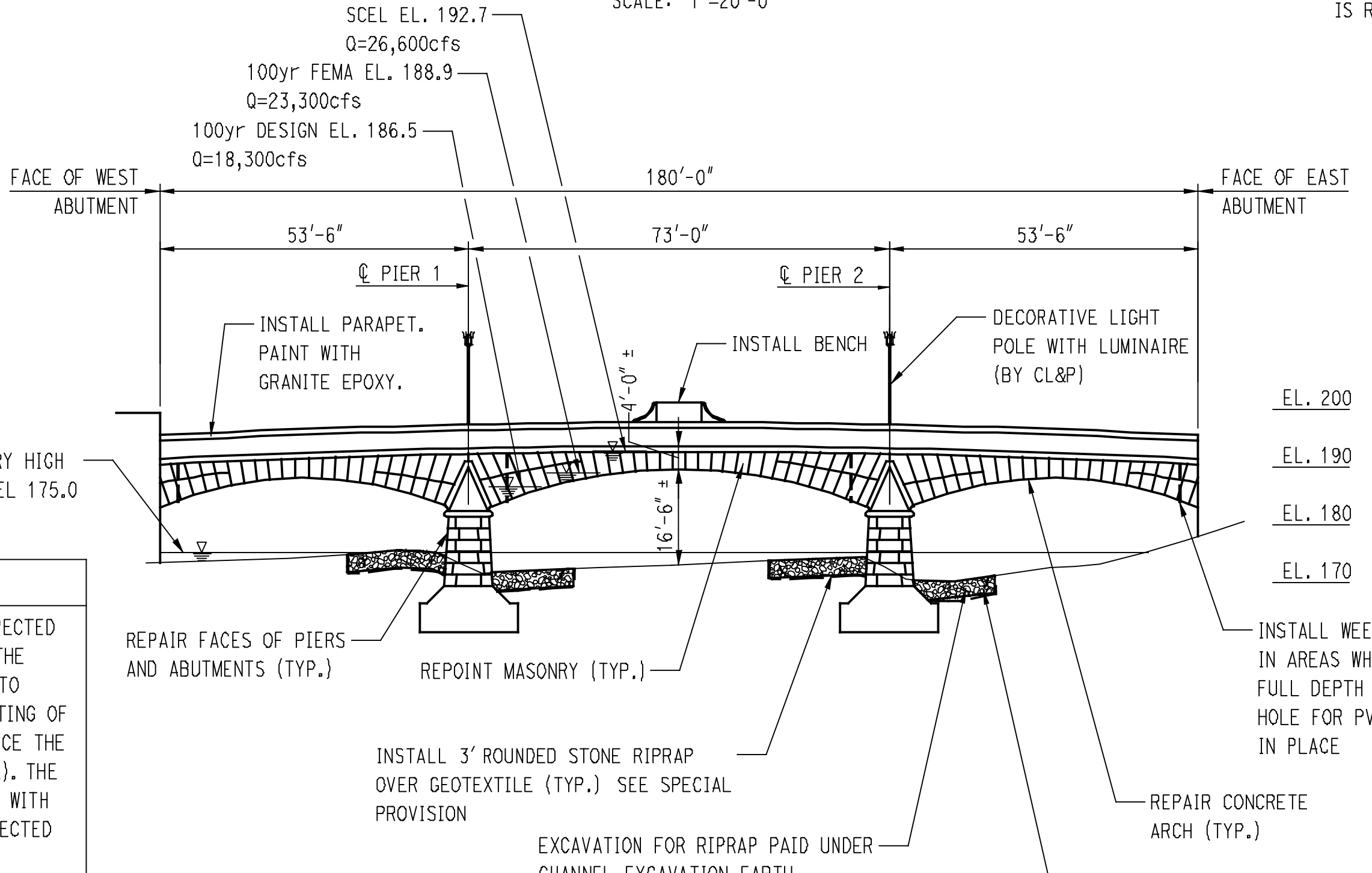
4:45:26 PM
 C:\Users\jrey\My Documents\18\CTDOT\Workspaces\18\16319\16319_UTILITY_DETAILS.dgn
 5/11/2012

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: CRH	BOROUGH OF NAUGATUCK DEPARTMENT OF PUBLIC WORKS	CLIA <small>CLOUGH HANBOUR & ASSOCIATES LLP</small> <small>2150 Silver Spring Highway, Suite 212, Rockville, MD, CT 0800-2100</small> <small>Phone: (301) 971-4507 - www.cloughnaugatuck.com</small>	PROJECT TITLE: MAPLE STREET OVER NAUGATUCK RIVER	TOWN: NAUGATUCK	PROJECT NO. 9087-4214
CHECKED BY: RJF		SCALE AS NOTED			DRAWING TITLES: UTILITY DETAILS	SHEET NO. 7 of 25	
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 5/11/2012			

Filename: i:\16319 maple street\cadd\highway\16319_utility_details.dgn



PLAN
SCALE: 1"=20'-0"



ELEVATION
SCALE: 1"=20'-0"

GENERAL NOTES:

SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 816 (2004), SUPPLEMENTAL SPECIFICATIONS (2010), AND SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES (AASHTO-2002), WITH INTERIMS, AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL (2003).

ALLOWABLE DESIGN STRESSES:
CLASS 'F' CONCRETE $f'_c = 4000$ PSI
REINFORCEMENT (ASTM A615 GRADE 60) $f_y = 60,000$ PSI

LIVE LOAD: HL93

DESIGN METHOD: LOAD AND RESISTANCE FACTOR DESIGN METHOD FOR C.I.P. CONCRETE.

FUTURE PAVING ALLOWANCE: NONE

DIMENSIONS: WHEN ELEVATIONS OR DECIMAL DIMENSIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZEROS.

CONSTRUCTION NOTES:

THIS ARCH STRUCTURE MUST BE UN-LOADED AND LOADED UNIFORMLY ON BOTH SIDES OF ALL ARCHES. THE CONCRETE FILL SHALL BE REMOVED FROM ALL ARCHES SO THAT THE DIFFERENTIAL ELEVATION OF FILL AT ANY LOCATION DOES NOT EXCEED TWO FEET. CONCRETE FILL SHALL BE REPLACED OVER THE ENTIRE LENGTH OF BRIDGE SUCH THAT THE DIFFERENTIAL ELEVATION OF CONCRETE FILL AT ANY LOCATION DOES NOT EXCEED TWO FEET. NO HEAVY EQUIPMENT WILL BE ALLOWED ON THE UN-BACKFILLED ARCH.

OTHER CONDITIONS ON DEMOLITION AND REPAIR CAN BE FOUND IN THESE DRAWINGS.

THE USE OF CRANES AND CONCRETE PUMP TRUCKS WILL BE REQUIRED TO COMPLETE THE CONSTRUCTION. THE AREA AT THE SOUTHEAST CORNER OF THE BRIDGE CAN BE USED FOR CRANES IF THE BUILDING IS DEMOLISHED AS PART OF THIS CONTRACT.

HYDRAULIC DATA	
DRAINAGE AREA	232 SQ. MI.
DESIGN FREQUENCY	100 YEAR
DESIGN DISCHARGE	18,300 CFS
AVERAGE DAILY FLOW ELEVATION	176.0 FT ESTIMATED
DESIGN WATER SURFACE ELEVATION-UPSTREAM	186.5 FT
DESIGN WATER SURFACE ELEVATION-DOWNSTREAM	185.6 FT
MAXIMUM SCOUR ELEVATION	157.7 FT
FREQUENCY	500
DISCHARGE	25,500
WORST CASE SCOUR SUB-STRUCTURE UNIT	Pier No. 2 (EAST)

CONCRETE DISTRIBUTION		
ITEM	UNIT	QUANTITY
SUPERSTRUCTURE	C.Y.	850
SUBSTRUCTURE	C.Y.	0
FOOTINGS	C.Y.	0
TOTAL	C.Y.	850

INSPECTION OF FIELD WELDS		
METHODS	UNIT	QUANTITY
ULTRASONIC	INCH	NONE
MAGNETIC PARTICLE	FEET	NONE

NOTICE TO BRIDGE INSPECTORS

CONDOT'S BRIDGE SAFETY PROCEDURES REQUIRE THIS BRIDGE TO BE INSPECTED FOR, BUT NOT LIMITED TO, ALL APPROPRIATE COMPONENTS INDICATED IN THE GOVERNING MANUALS FOR BRIDGE INSPECTION. ATTENTION MUST BE GIVEN TO INSPECTING THE FOLLOWING SPECIAL COMPONENTS AND DETAILS. (THE LISTING OF COMPONENTS FOR SPECIFIC ATTENTION SHALL NOT BE CONSTRUED TO REDUCE THE IMPORTANCE OF INSPECTION OF ANY OTHER COMPONENT OF THE STRUCTURE). THE FREQUENCY OF INSPECTION OF THIS STRUCTURE SHALL BE IN ACCORDANCE WITH THE GOVERNING MANUALS FOR BRIDGE INSPECTION, UNLESS OTHERWISE DIRECTED BY CONDOT'S MANAGER OF BRIDGE SAFETY AND EVALUATION

COMPONENT OR DETAIL	STRUCTURE SHEET REFERENCE
NO SPECIAL INSPECTION OF THIS STRUCTURE IS REQUIRED	

4/16/2012 10:45:33 AM
 I:\Projects\116319\maple\bridge\general\bridge\general\plan.dgn
 5/11/2012

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

Plot Date: 5/11/2012

DESIGNER/DRAWER:
CRH

CHECKED BY:
RJF

SCALE IN FEET
0 20 40
SCALE 1"=20'

BOROUGH OF NAUGATUCK
DEPARTMENT OF PUBLIC WORKS

File name: i:\116319\maple\bridge\general\bridge\general\plan.dgn

CLOUGH HARBOUR & ASSOCIATES LLP
2150 Blue Dome Highway, Suite 212, Rocky Hill, CT 06109-2508
Phone: (860) 457-4507 www.cha-engineering.com

PROJECT TITLE:
MAPLE STREET OVER NAUGATUCK RIVER

TOWN:
NAUGATUCK

DRAWING TITLE:
BRIDGE GENERAL PLAN

PROJECT NO.
9087-4214


DRAWING NO.

SHEET NO.
8 of **25**

CHA TEST CORING REPORT										BORING NO. B1									
PROJECT & LOCATION: MAPLE STREET BRIDGE NAUGATUCK, CT										PROJECT NO.: 16319									
CLIENT: NAUGATUCK										SHEET NO.: 1									
CONTRACTOR: NEW ENGLAND BORINGS										ELEVATION: 191.2 FT									
GROUNDWATER MEASUREMENT										START DATE: 8/10/2007									
DATE TIME WATER DEPTH TO (FT.)										FINISH DATE: 8/10/2007									
RECOVERY R O D										RIG TYPE:									
TYPE: CASING SAMPLER CORE BARREL										DRILLER: BRIAN KABIS									
SIZE 1.0" HMMER WT.: HMMER FALL:										INSPECTOR: BRIAN KABIS									
DEPTH IN FEET	STAIN CHANGE AND DESCRIPTION	DATE	TIME	WATER	DEPTH TO (FT.)	RECOVERY R O D	TYPE	CASING	SAMPLER	CORE BARREL	NOTES	FIELD CLASSIFICATION							
0.10 ft												Pavement							
0.60 ft												Filler Concrete							
0.96 ft												Porous Concrete							
2.85 ft												Fine Aggregate Concrete							
												BOTTOM OF DECK AT ELEVATION 188.35 FT							
5																			
10																			
15																			
20																			
25																			
FIELD HARDNESS												WEATHERING		BEDDING THICKNESS:		FRACTURE SPACING:		R O D	
V. HARD - KNIFE CANT SCRATCH												FRESH		MASSIVE		VERY WIDE		> 4"	
HARD - SCRATCHES DIFFICULTLY												SLIGHT		THICK		1" - 4"		90 - 75	
MED. HARD - SCRATCHES EASILY												MODERATE		MEDIUM		4" - 1"		75 - 60	
SOFT - BRUISES												HIGH		THIN		VERY CLOSE		50 - 25	
V. SOFT - CARVES												COMPLETE						< 25	

CHA TEST CORING REPORT										BORING NO. B2									
PROJECT & LOCATION: MAPLE STREET BRIDGE NAUGATUCK, CT										PROJECT NO.: 16319									
CLIENT: NAUGATUCK										SHEET NO.: 1									
CONTRACTOR: NEW ENGLAND BORINGS										ELEVATION: 191.9 FT									
GROUNDWATER MEASUREMENT										START DATE: 8/10/2007									
DATE TIME WATER DEPTH TO (FT.)										FINISH DATE: 8/10/2007									
RECOVERY R O D										RIG TYPE:									
TYPE: CASING SAMPLER CORE BARREL										DRILLER: BRIAN KABIS									
SIZE 1.0" HMMER WT.: HMMER FALL:										INSPECTOR: BRIAN KABIS									
DEPTH IN FEET	STAIN CHANGE AND DESCRIPTION	DATE	TIME	WATER	DEPTH TO (FT.)	RECOVERY R O D	TYPE	CASING	SAMPLER	CORE BARREL	NOTES	FIELD CLASSIFICATION							
0.13 ft												Pavement							
0.58 ft												Concrete Filling							
0.60 ft												Bit. Waterproofing							
3.60 ft												Large Aggregate Concrete							
5												Smaller Aggregate Concrete							
5.10 ft												Light Type Material							
5.38 ft																			
10												Small Aggregate Concrete							
10.6 ft												Cement Mortar							
11.0 ft																			
15												Large Aggregate Concrete							
16.6 ft												Plaster							
20																			
25																			
25.6 ft												Large Aggregate Concrete							
FIELD HARDNESS												WEATHERING		BEDDING THICKNESS:		FRACTURE SPACING:		R O D	
V. HARD - KNIFE CANT SCRATCH												FRESH		MASSIVE		VERY WIDE		> 4"	
HARD - SCRATCHES DIFFICULTLY												SLIGHT		THICK		1" - 4"		90 - 75	
MED. HARD - SCRATCHES EASILY												MODERATE		MEDIUM		4" - 1"		75 - 60	
SOFT - BRUISES												HIGH		THIN		VERY CLOSE		50 - 25	
V. SOFT - CARVES												COMPLETE						< 25	

CHA TEST CORING REPORT										BORING NO. B3									
PROJECT & LOCATION: MAPLE STREET BRIDGE NAUGATUCK, CT										PROJECT NO.: 16319									
CLIENT: NAUGATUCK										SHEET NO.: 1									
CONTRACTOR: NEW ENGLAND BORINGS										ELEVATION: 192.5 FT									
GROUNDWATER MEASUREMENT										START DATE: 2/27/2008									
DATE TIME WATER DEPTH TO (FT.)										FINISH DATE: 2/27/2008									
RECOVERY R O D										RIG TYPE:									
TYPE: CASING SAMPLER CORE BARREL										DRILLER: BRIAN KABIS									
SIZE 1.0" HMMER WT.: HMMER FALL:										INSPECTOR: BRIAN KABIS									
DEPTH IN FEET	STAIN CHANGE AND DESCRIPTION	DATE	TIME	WATER	DEPTH TO (FT.)	RECOVERY R O D	TYPE	CASING	SAMPLER	CORE BARREL	NOTES	FIELD CLASSIFICATION							
0.10 ft												Pavement							
0.58 ft												Filler Concrete							
0.96 ft												Porous Concrete							
2.80 ft												Structural Slab (Arch)							
												BOTTOM OF DECK AT ELEVATION 189.7 FT							
5																			
10																			
15																			
20																			
25																			
FIELD HARDNESS												WEATHERING		BEDDING THICKNESS:		FRACTURE SPACING:		R O D	
V. HARD - KNIFE CANT SCRATCH												FRESH		MASSIVE		VERY WIDE		> 4"	
HARD - SCRATCHES DIFFICULTLY												SLIGHT		THICK		1" - 4"		90 - 75	
MED. HARD - SCRATCHES EASILY												MODERATE		MEDIUM		4" - 1"		75 - 60	
SOFT - BRUISES												HIGH		THIN		VERY CLOSE		50 - 25	
V. SOFT - CARVES												COMPLETE						< 25	

- BORING NOTES:**
- BORINGS WERE MADE BY NEW ENGLAND BORING IN AUGUST 2007.
 - BORING LOCATIONS SHOWN THUS  ON BRIDGE GENERAL PLAN, SHEET 8.
 - BORINGS ARE AVAILABLE AT THE TOWN HALL FOR REVIEW.

4/16/2008 PM 1:11:11 by: N. J. ...
 5/11/2008

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

DESIGNER/DRAWER: **CRH**
 CHECKED BY: **RJF**
 SCALE IN FEET
 SCALE: 1/4" = 1'-0"

BOROUGH OF NAUGATUCK
 DEPARTMENT OF PUBLIC WORKS

CHA
 CLOUGH HANBOUR & ASSOCIATES LLP
 2124 Glen Osborne Highway, Suite 212, Rocky Hill, CT 06067-2228
 Phone: (860) 351-4527 - www.ughna.com

PROJECT TITLE:
MAPLE STREET OVER NAUGATUCK RIVER

TOWN:
NAUGATUCK

DRAWING TITLE:
BORING 1 OF 2

PROJECT NO.: **9087-4214**
 DRAWING NO.:
 SHEET NO.: **9** of **25**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

Plotted Date: 5/11/2008

Filename: I:\16319 maple street\cad\bridge\boring 1 of 2.dgn

DATE		TIME	WATER	DEPTH TO (FT.)	DEPTH TO (FT.)	DEPTH TO (FT.)	CASING	SAMPLER	CORE BARREL
<p>CHA TEST CORING REPORT</p> <p>PROJECT & LOCATION: MAPLE STREET BRIDGE NAUGATUCK, CT CLIENT: NAUGATUCK CONTRACTOR: NEW ENGLAND BORINGS</p> <p>BORING NO.: B4 PROJECT NO.: 16319 SHEET NO.: 1 ELEVATION: 191.9 FT START DATE: 2/27/2008 FINISH DATE: 2/27/2008</p> <p>GROUNDWATER MEASUREMENT</p> <p>DATE: _____ TIME: _____ WATER: _____ DEPTH TO (FT.): _____ DEPTH TO (FT.): _____ DEPTH TO (FT.): _____ CASING: _____ SAMPLER: _____ CORE BARREL: _____</p> <p>RIG TYPE: _____ START DATE: _____ FINISH DATE: _____ DRILLER: _____ INSPECTOR: BRIAN KABIS</p>									
DEPTH IN FEET	STAIN CHANGE AND DESCRIPTION	LINE NO.	RECOVERY R O D	NOTES	FIELD CLASSIFICATION				
0.06					Bit. Pavement				
1.82					Large Aggregate Concrete				
5.23		S1	10.0	100	Discontinuous Large Aggregate Concrete				
8.23					Small Aggregate Concrete				
9.25					Plaster Type Material				
9.29					Porous Material				
22.8					Large Aggregate Concrete				
22.92					Plaster Material				
25.5		S3	9.50	100	Large Aggregate Concrete				
<p>FIELD HARDNESS WEATHERING BEDDING THICKNESS: FRACTURE SPACING: R O D</p> <p>V. HARD - KNIFE CANT SCRATCH FRESH MASSIVE 1" - 4" VERT WIDE > 6" > 90% EXCELLENT HARD - SCRATCHES DIFFICULTLY SLIGHT 1/2" - 4" WIDE 2" - 8" 90 - 75 GOOD MED. HARD - SCRATCHES EASILY MODERATE 1/2" - 1" WIDE 1/2" - 2" 75 - 50 FAIR SOFT - ERODES CLOSE 1/2" - 1/2" WIDE 1/2" - 1/2" 50 - 25 POOR V. SOFT - CRUMBLES VERY CLOSE < 1/2" WIDE < 1/2" 25% VERY POOR</p>									

DATE		TIME	WATER	DEPTH TO (FT.)	DEPTH TO (FT.)	DEPTH TO (FT.)	CASING	SAMPLER	CORE BARREL
<p>CHA TEST CORING REPORT</p> <p>PROJECT & LOCATION: MAPLE STREET BRIDGE NAUGATUCK, CT CLIENT: NAUGATUCK CONTRACTOR: NEW ENGLAND BORINGS</p> <p>BORING NO.: B5 PROJECT NO.: 16319 SHEET NO.: 1 ELEVATION: 191.1 FT START DATE: 2/27/2008 FINISH DATE: 2/27/2008</p> <p>GROUNDWATER MEASUREMENT</p> <p>DATE: _____ TIME: _____ WATER: _____ DEPTH TO (FT.): _____ DEPTH TO (FT.): _____ DEPTH TO (FT.): _____ CASING: _____ SAMPLER: _____ CORE BARREL: _____</p> <p>RIG TYPE: _____ START DATE: _____ FINISH DATE: _____ DRILLER: _____ INSPECTOR: BRIAN KABIS</p>									
DEPTH IN FEET	STAIN CHANGE AND DESCRIPTION	LINE NO.	RECOVERY R O D	NOTES	FIELD CLASSIFICATION				
0.13					Pavement				
0.55					Discontinuity				
0.92		S1	2.29	100	Filter Concrete				
2.42					Rebar encountered				
					Porous Concrete				
					Small Aggregate Concrete				
<p>BOTTOM OF CORE AT ELEVATION 188.7 FT</p>									
<p>FIELD HARDNESS WEATHERING BEDDING THICKNESS: FRACTURE SPACING: R O D</p> <p>V. HARD - KNIFE CANT SCRATCH FRESH MASSIVE 1" - 4" VERT WIDE > 6" > 90% EXCELLENT HARD - SCRATCHES DIFFICULTLY SLIGHT 1/2" - 4" WIDE 2" - 8" 90 - 75 GOOD MED. HARD - SCRATCHES EASILY MODERATE 1/2" - 1" WIDE 1/2" - 2" 75 - 50 FAIR SOFT - ERODES CLOSE 1/2" - 1/2" WIDE 1/2" - 1/2" 50 - 25 POOR V. SOFT - CRUMBLES VERY CLOSE < 1/2" WIDE < 1/2" 25% VERY POOR</p>									

NOTES:

- FOR BORING NOTES, SEE SHEET 9.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

DESIGNER/DRAWER: CRH
 CHECKED BY: RJF
 SCALE IN FEET
 SCALE: 1/4"=1'-0"



BOROUGH OF NAUGATUCK
 DEPARTMENT OF PUBLIC WORKS



PROJECT TITLE: MAPLE STREET OVER NAUGATUCK RIVER

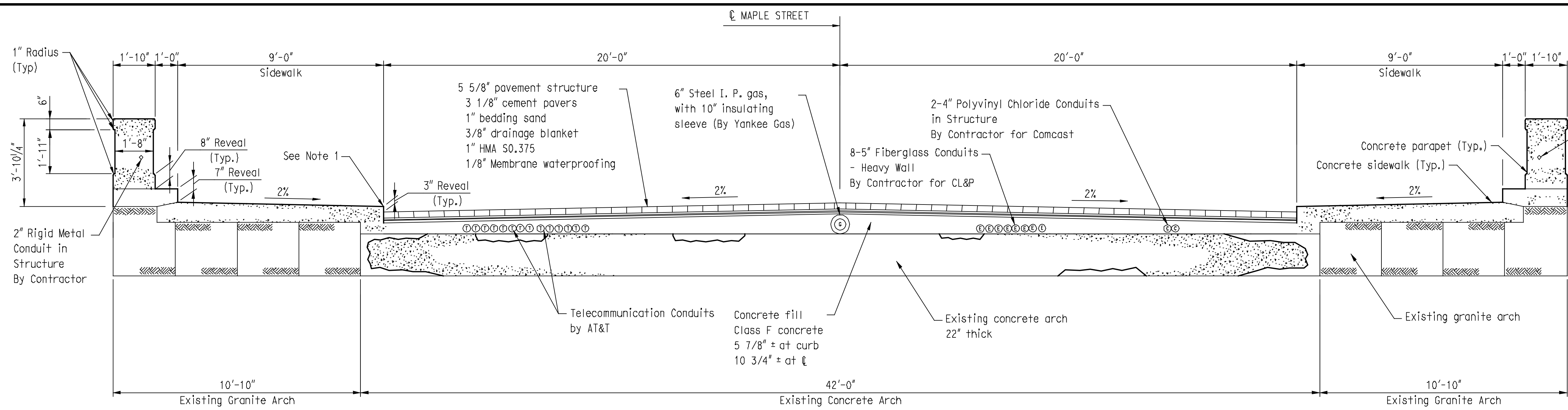
TOWN: NAUGATUCK
 PROJECT NO.: 9087-4214
 DRAWING NO.: BORING 2 OF 2
 SHEET NO.: 10 of 25

4/15/2011 11:51 AM I:\Projects\16319\Maple Street Bridge\Drawings\Standards\Tables\pen\DOT_pentable_b.lark.tbl
 5/11/2012

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

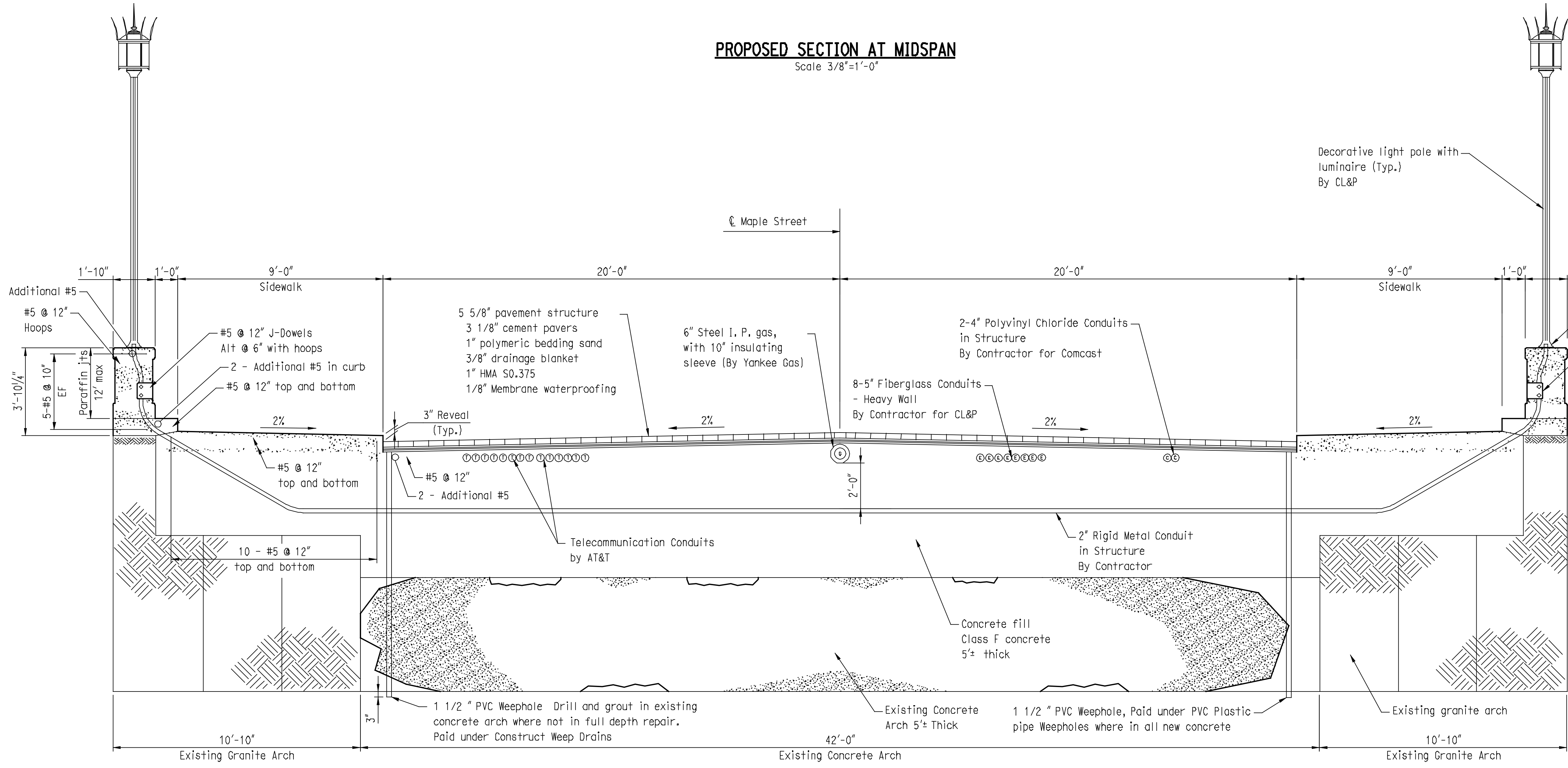
Plotted Date: 5/11/2012

Filename: I:\16319 maple street\cad\bridge\bor1ing 2 of 2.dgn



PROPOSED SECTION AT MIDSPAN
Scale 3/8"=1'-0"

- NOTES:**
1. DETAIL AT CURB AND PARAPET MAY BE ADJUSTED DURING CONSTRUCTION. CONTRACTOR SHALL REMOVE EXISTING CONCRETE AND PAVEMENT TO EXPOSED GRANITE ARCH. ENGINEER WILL INSPECT ACTUAL SITE CONDITIONS AND MODIFY PROPOSED DETAILS IF NECESSARY.
 2. SEE STAGE 1 AND STAGE 2 CROSS SECTIONS, SHEETS 21-22 FOR CONDUIT IN STRUCTURE CONSTRUCTION DETAILS. SEE UTILITY PLAN, SHEET 6, AND UTILITY DETAILS, SHEET 7, FOR ADDITIONAL UTILITY RELOCATION DETAILS.
 3. THE CEMENT PAVERS ON THE BRIDGE INCLUDING THE PAVERS, BEDDING SAND, AND DRAINAGE BLANKET SHALL BE PAID UNDER THE "BRICK PAVING" ITEM.
 4. ALL CONCRETE FOR PATCHING THE STRUCTURAL CONCRETE ARCH SHALL BE PAID UNDER THE "VARIABLE DEPTH PATCH" ITEM. ALL OTHER CONCRETE INCLUDING FILL, BRIDGE SIDEWALK, AND PARAPETS SHALL BE PAID UNDER THE "CLASS F CONCRETE" ITEM.
 5. TWO FEET OF VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN THE 6" I. P. GAS MAIN (YANKEE GAS) AND THE 2" RIGID METAL CONDUIT.
 6. ADDITIONAL COVER MAY BE OBTAINED FOR CONDUITS AT SUPPORTS, MAINTAIN MINIMUM OF 2' OF VERTICAL COVER OVER 2" RIGID METAL CONDUIT.
 7. CONCRETE PARAPETS SHALL BE RUBBED TO A SMOOTH FINISH WITHIN 4 DAYS OF PLACING THE CONCRETE.



PROPOSED SECTION OVER SUPPORTS
Scale 3/8"=1'-0"

4/15/12 4:45 PM
 C:\Users\jrey\My Documents\Projects\Standard\Maple Street\Maple Street\Maple Street\Maple Street.dgn
 5/11/2012

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

DESIGNER/DRAWER: **CRH**
 CHECKED BY: **RJF**
 SCALE AS NOTED

BOROUGH OF NAUGATUCK
 DEPARTMENT OF PUBLIC WORKS

File name: I:\16319 maple street\cad\bridge\Deck Section.dgn

SIGNATURE BLOCK

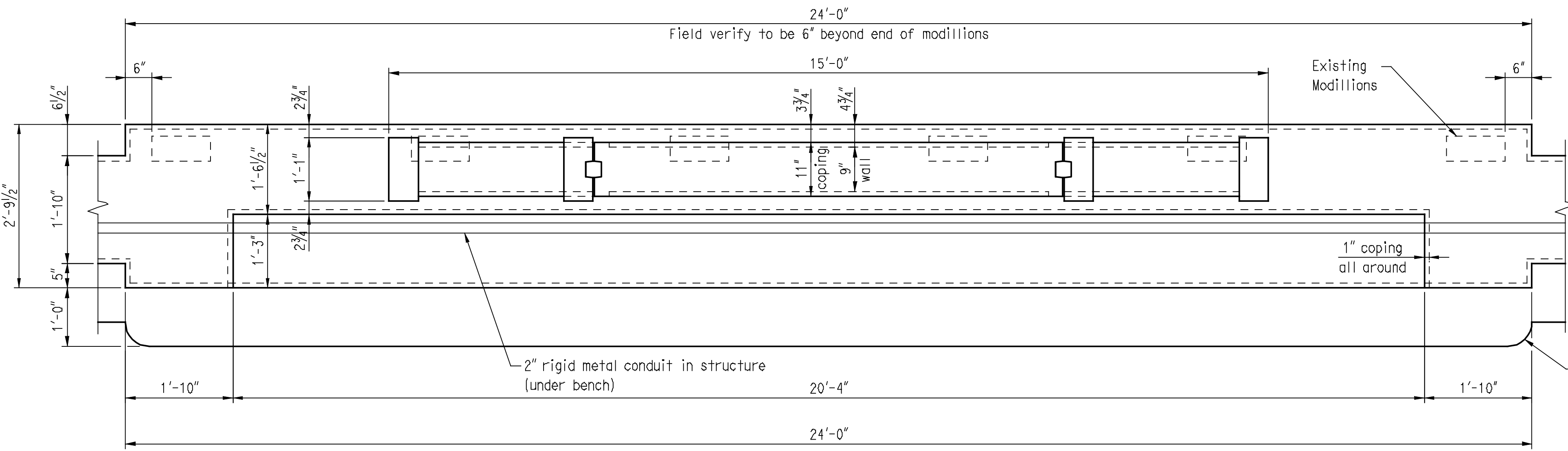
CIA
 CLOUGH HARBOUR & ASSOCIATES LLP
 2130 Glen Cove Highway, Suite 212, Rocky Hill, CT 06067-2230
 Phone: (860) 371-4527 • www.cia-naugatuck.com

PROJECT TITLE:
MAPLE STREET OVER NAUGATUCK RIVER

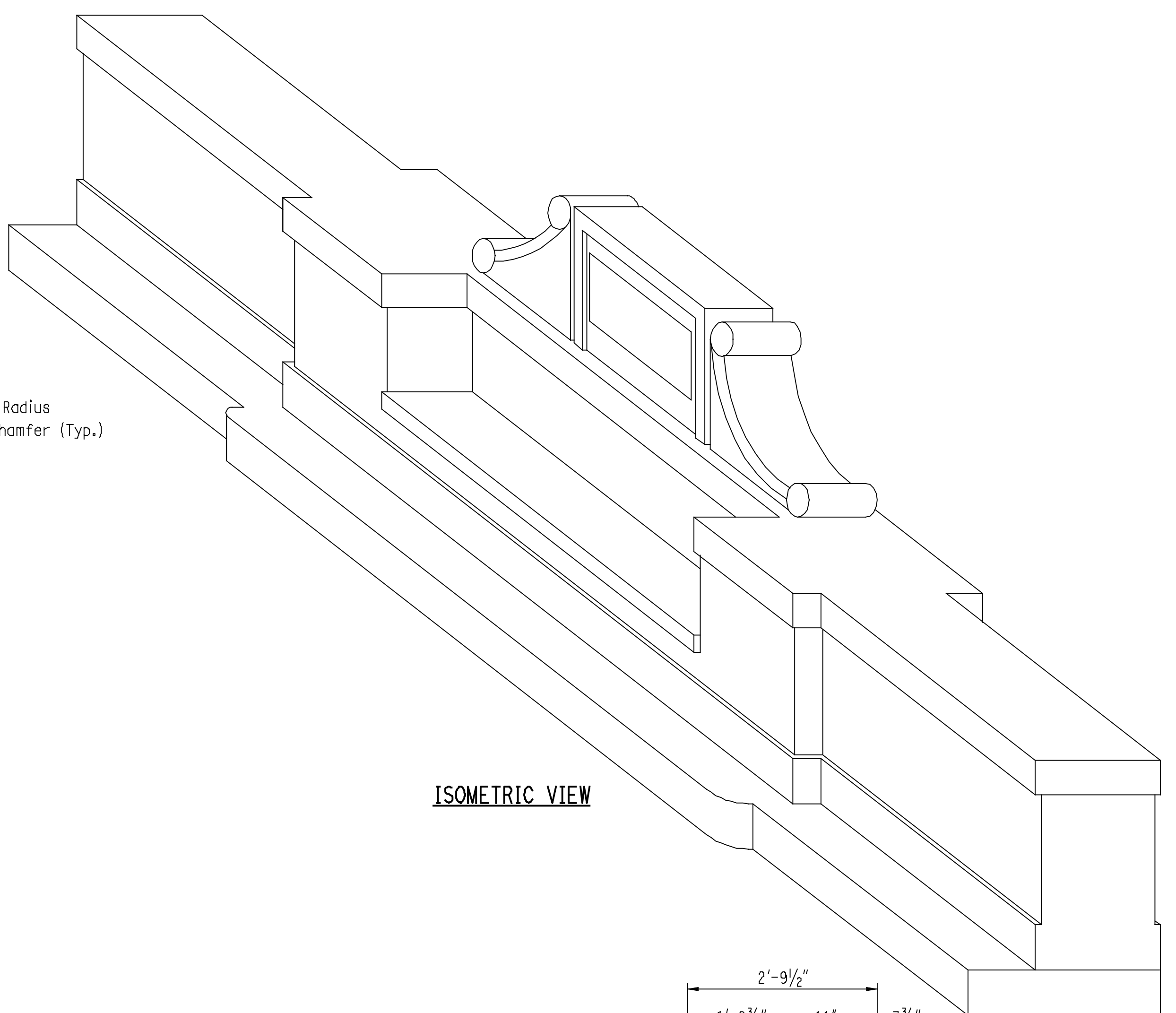
TOWN: **NAUGATUCK**
 PROJECT NO.: **9087-4214**
 DRAWING TITLE: **DECK SECTION AND DETAILS**
 SHEET NO.: **11** of **25**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

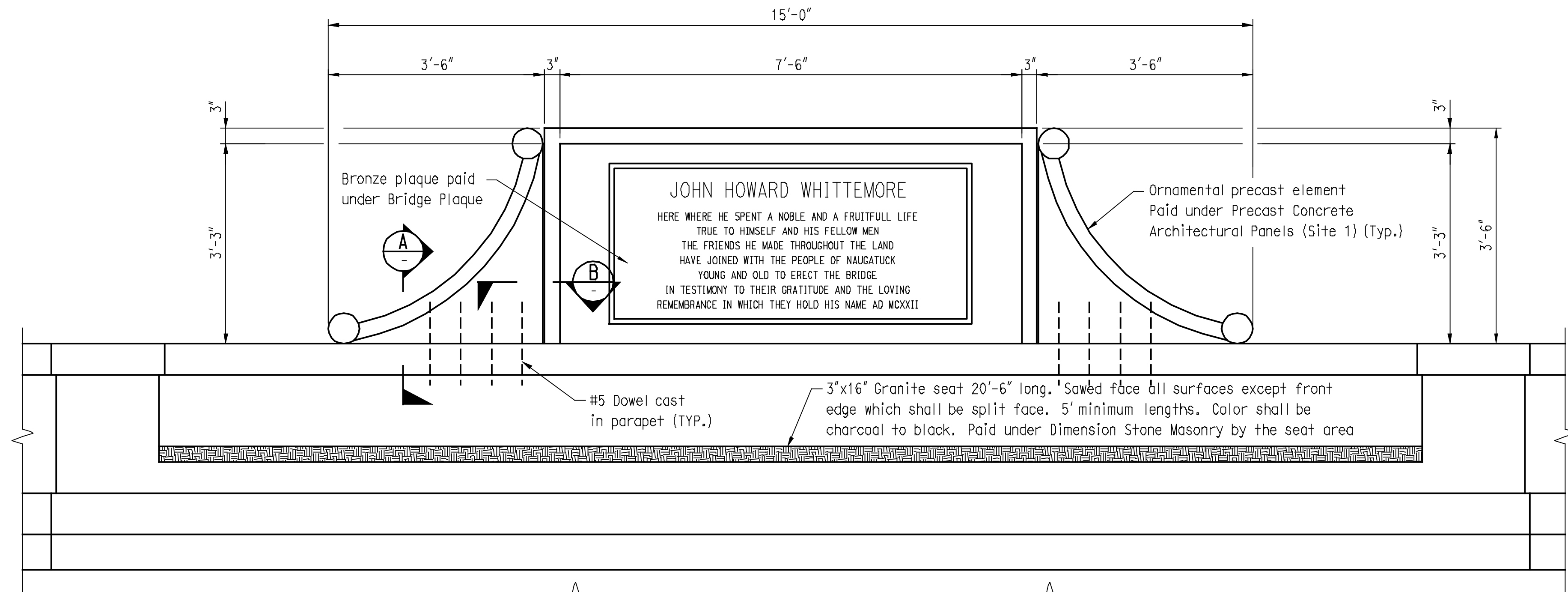
Plotted Date: 5/11/2012



PLAN



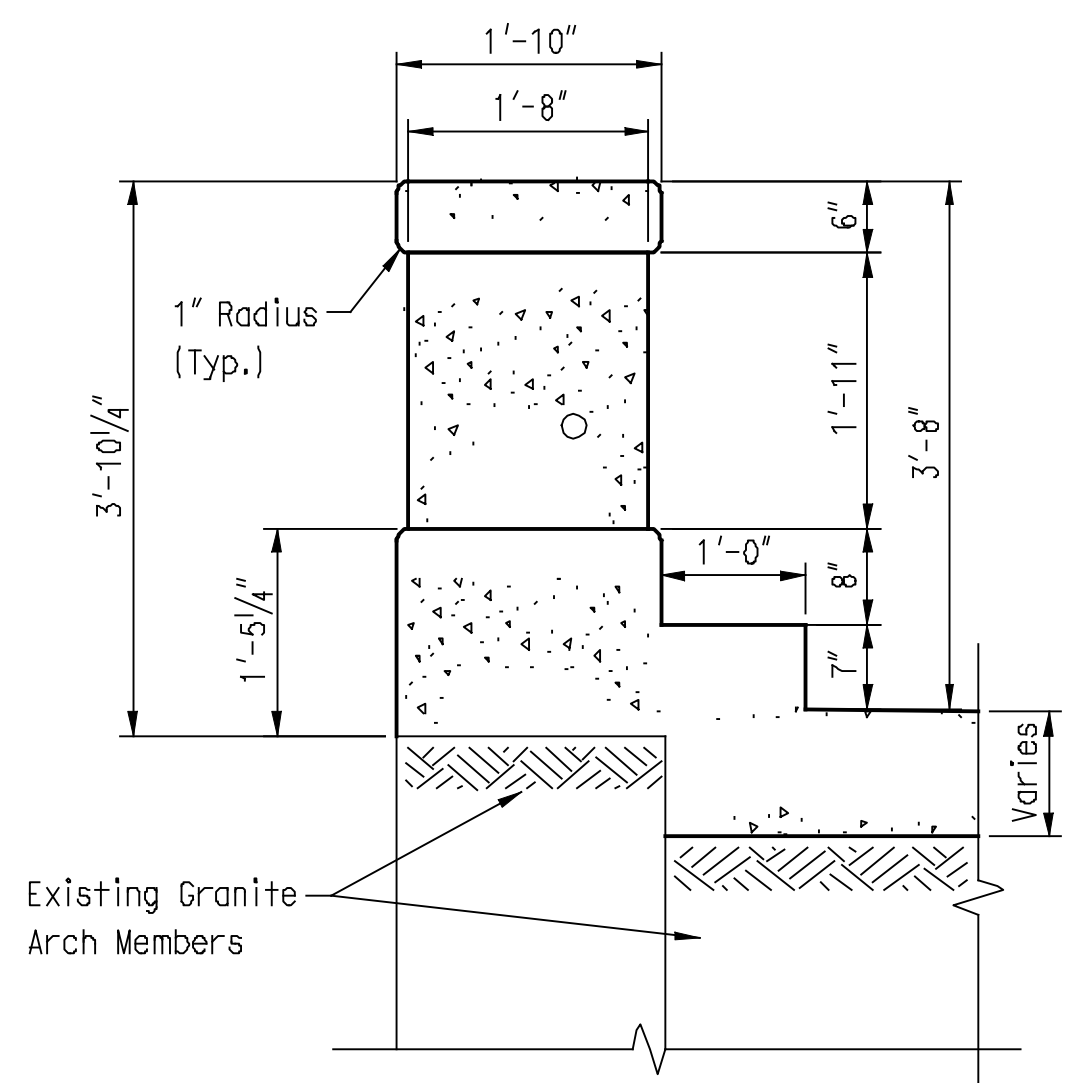
ISOMETRIC VIEW



ELEVATION

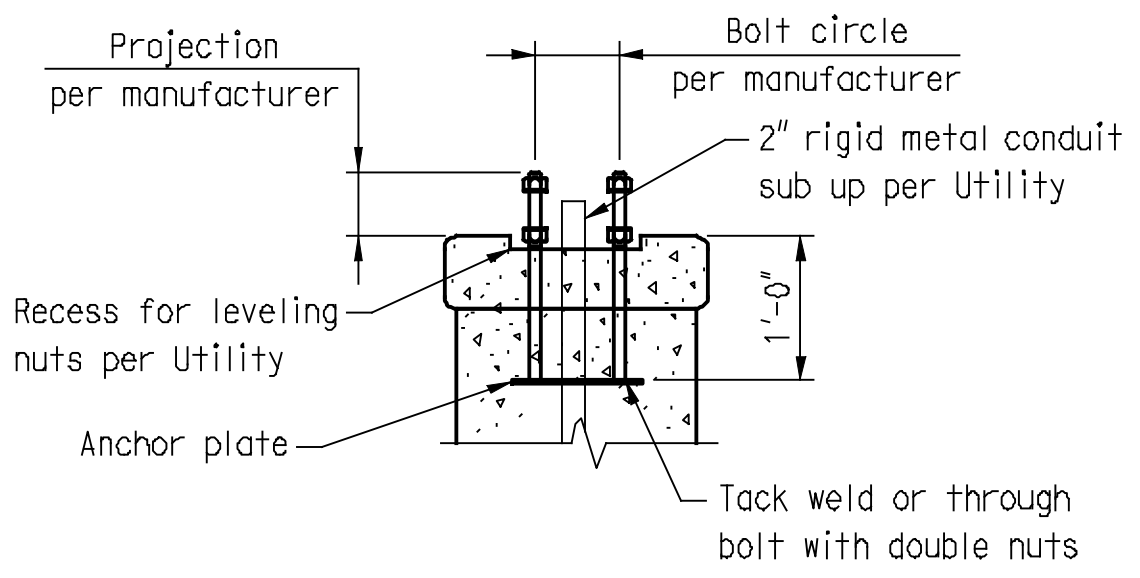
MIDSPAN BENCH DETAIL

Scale 3/4"=1'-0"



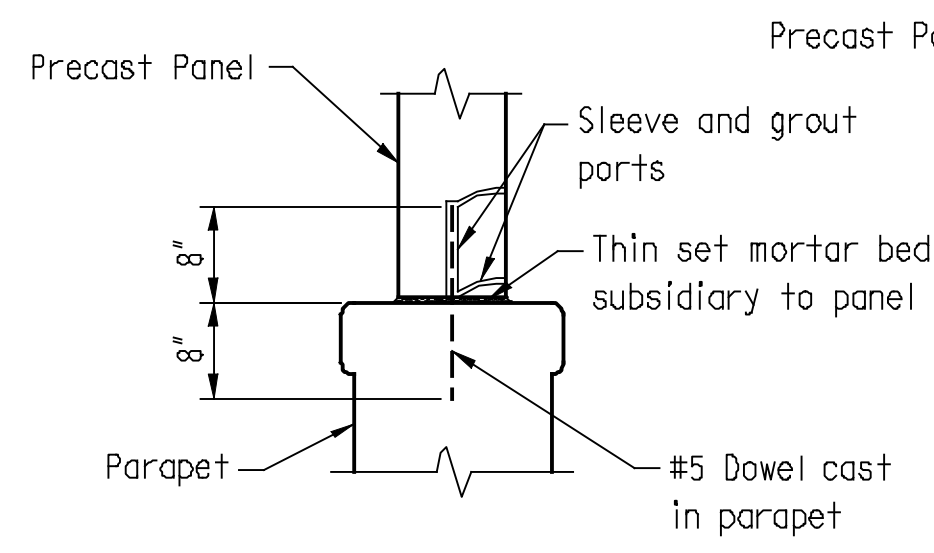
PARAPET DETAIL

Scale 3/4"=1'-0"



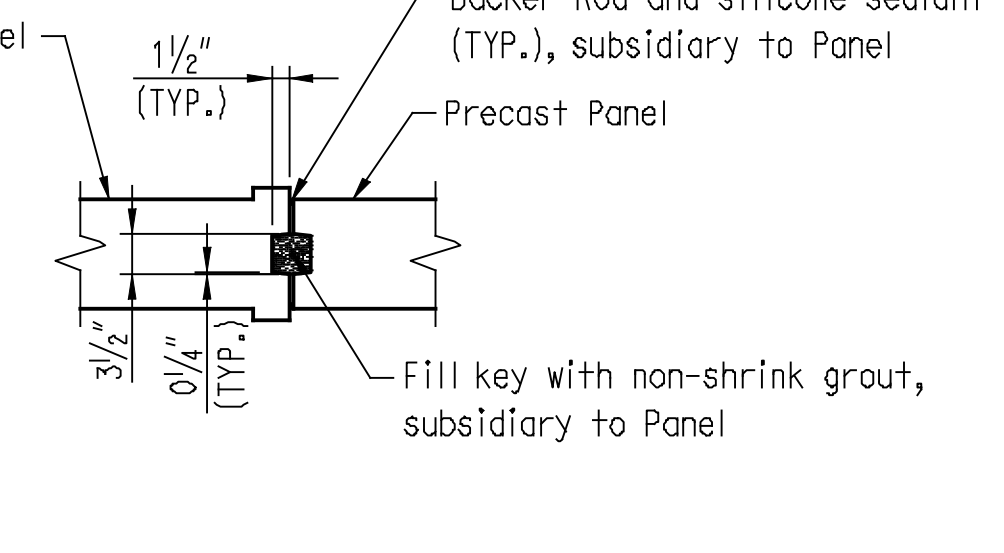
LIGHT POST ANCHORAGE

Scale 3/4"=1'-0"



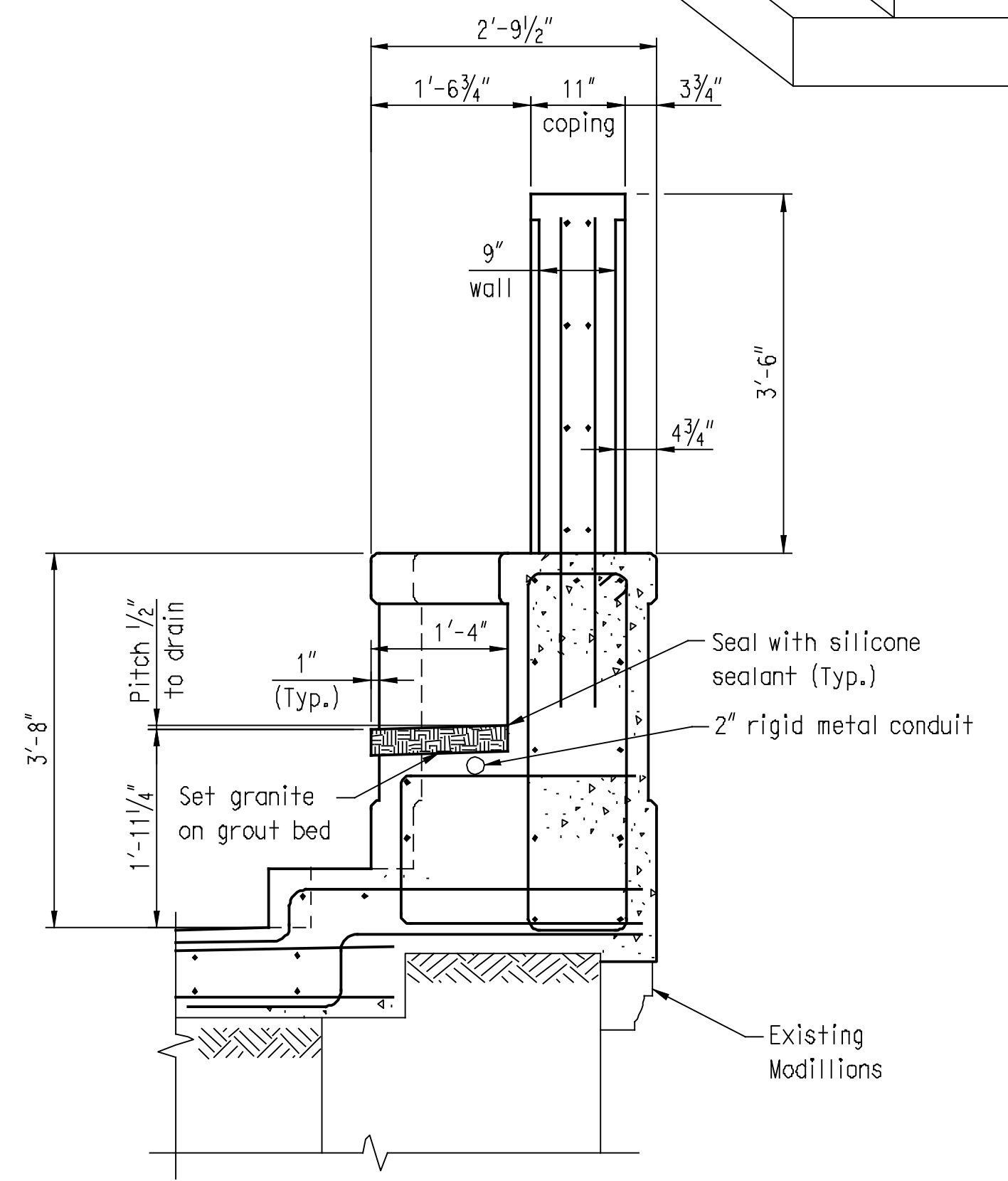
SECTION A

SCALE: 3/4"=1'-0"



SECTION B

SCALE: 3/4"=1'-0"



SECTION - MIDSPAN BENCH DETAIL

4:45:49 PM
 C:\Users\jerry\My Documents\Borough of Naugatuck\Projects\Maple Street\Maple Street Bridge Deck Details.dgn
 5/11/2012

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

DESIGNER/DRAFTER: **CRH**
 CHECKED BY: **RJF**
 SCALE AS NOTED

BOROUGH OF NAUGATUCK
 DEPARTMENT OF PUBLIC WORKS

CIA
 CLOUGH HARBOUR & ASSOCIATES LLP
 2150 Blue Oxen Highway, Suite 212, Rocky Hill, CT 06067-2008
 (860) 437-4507 • www.cia-engineers.com

PROJECT TITLE: **MAPLE STREET OVER NAUGATUCK RIVER**

TOWN: **NAUGATUCK**
 PROJECT NO.: **9087-4214**
 DRAWING NO.:
 DRAWING TITLE: **DECK DETAILS 1 OF 2**
 SHEET NO.: **12** of **25**

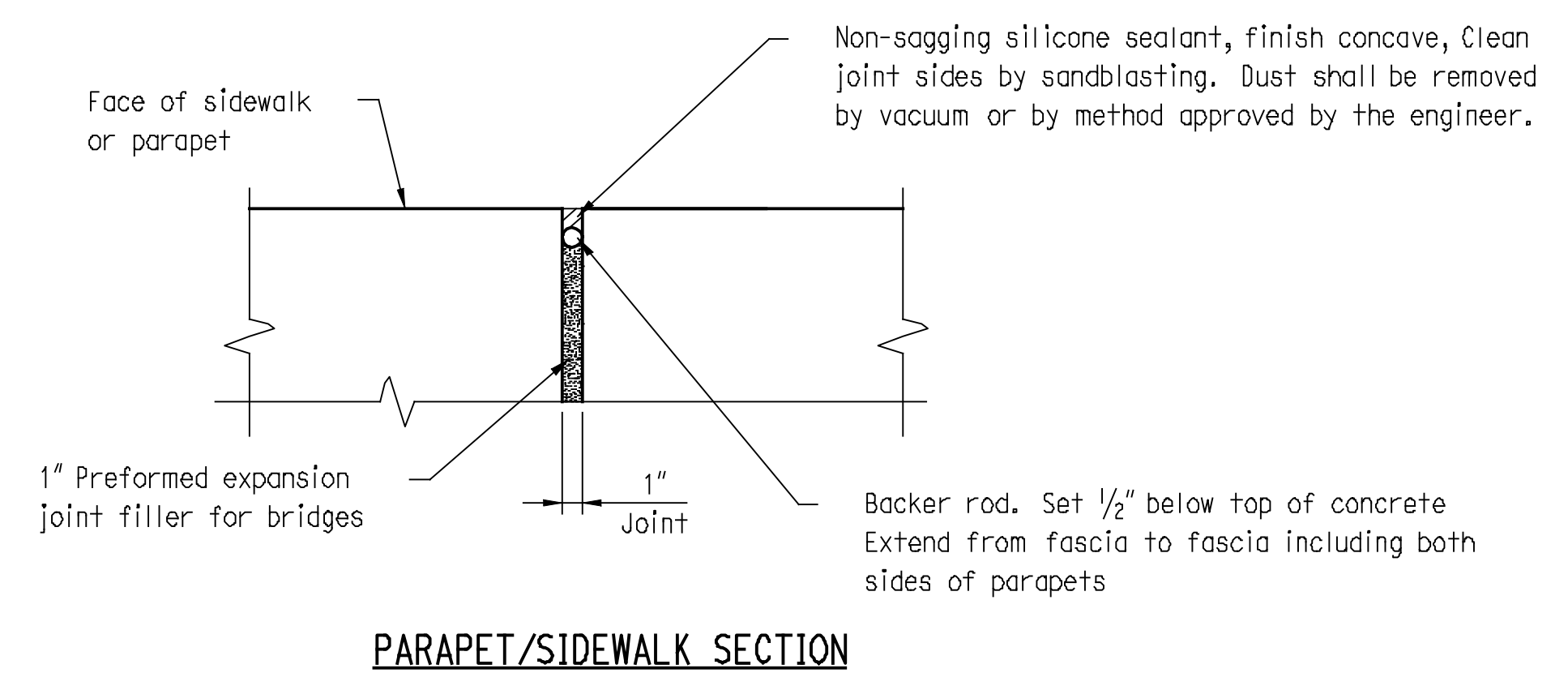
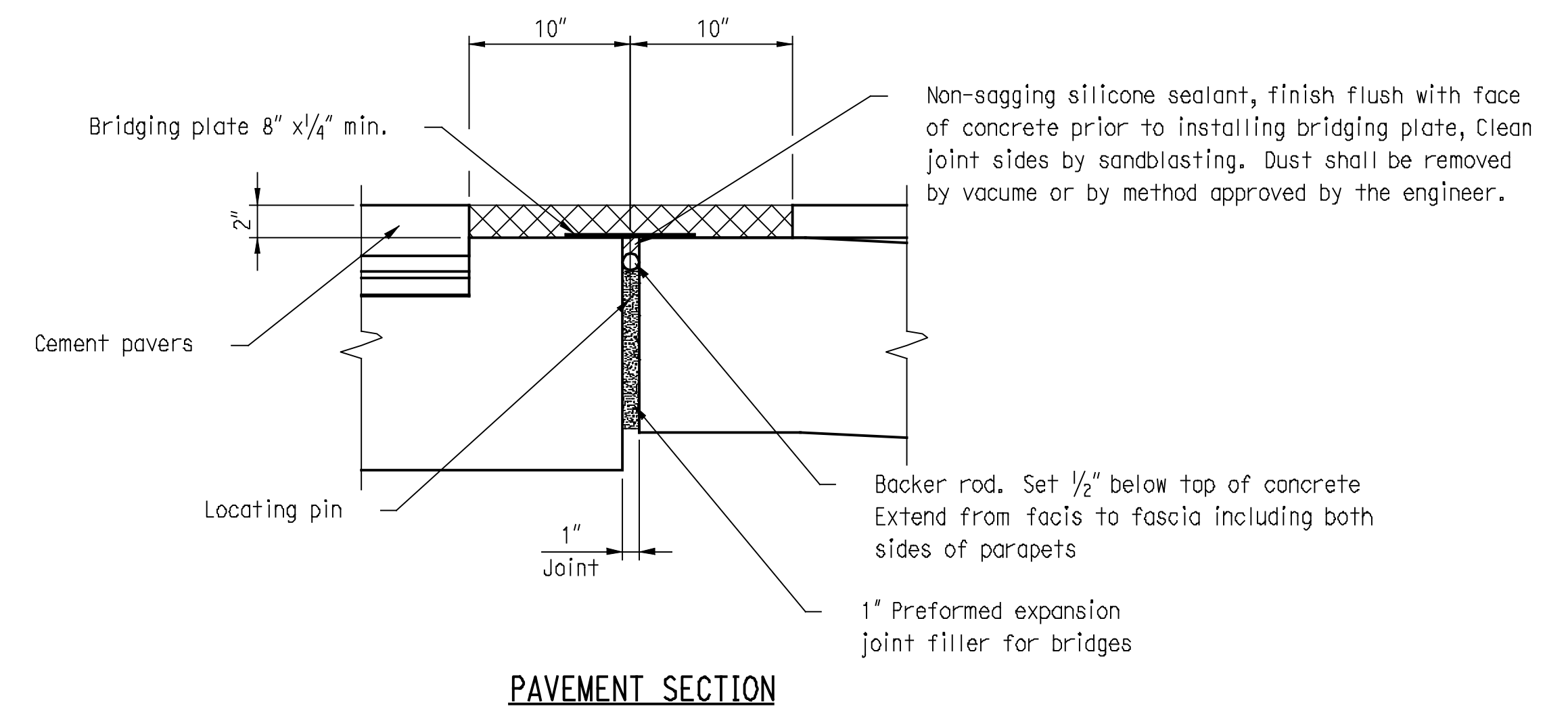
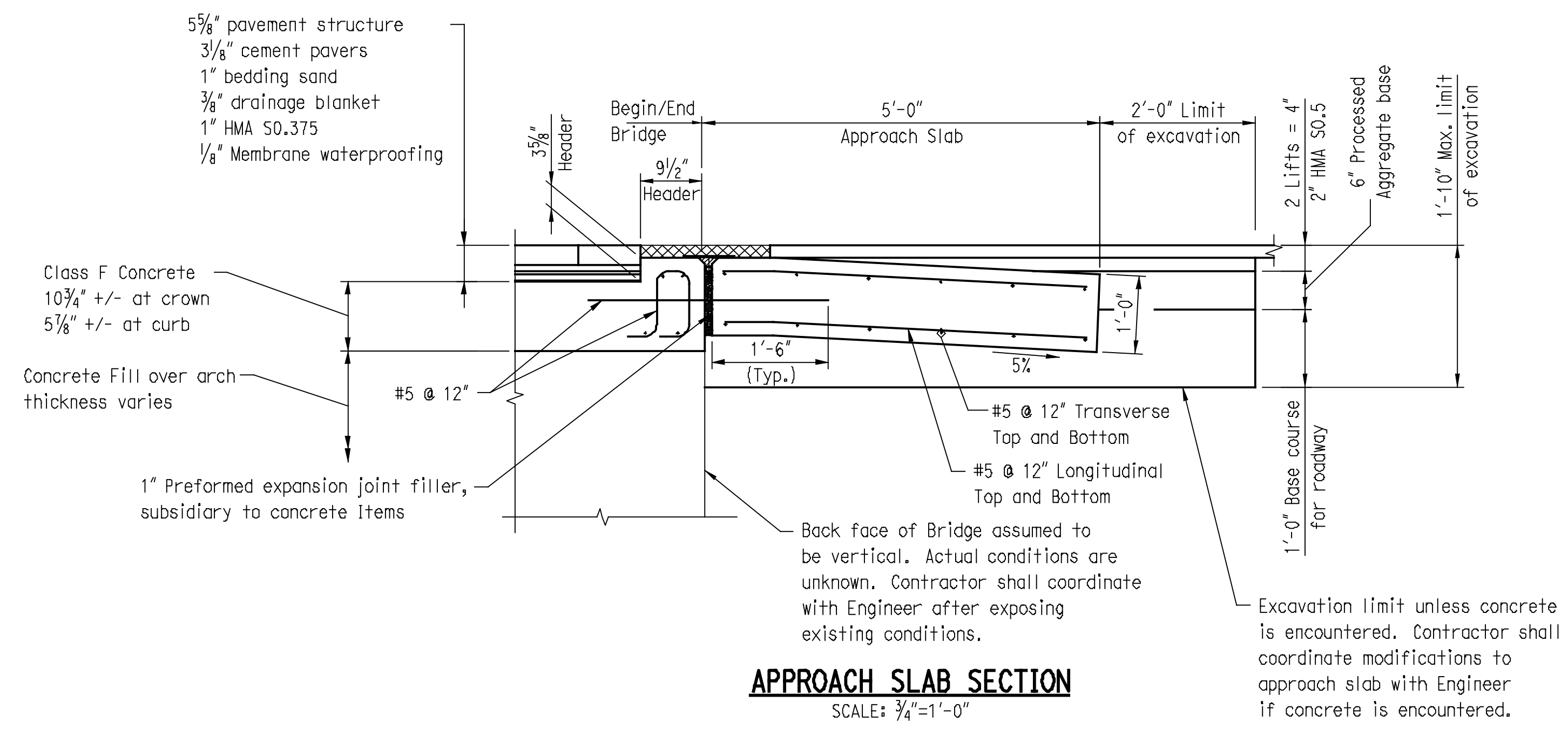
REV.	DATE	REVISION DESCRIPTION	SHEET NO.

Plotted Date: 5/11/2012

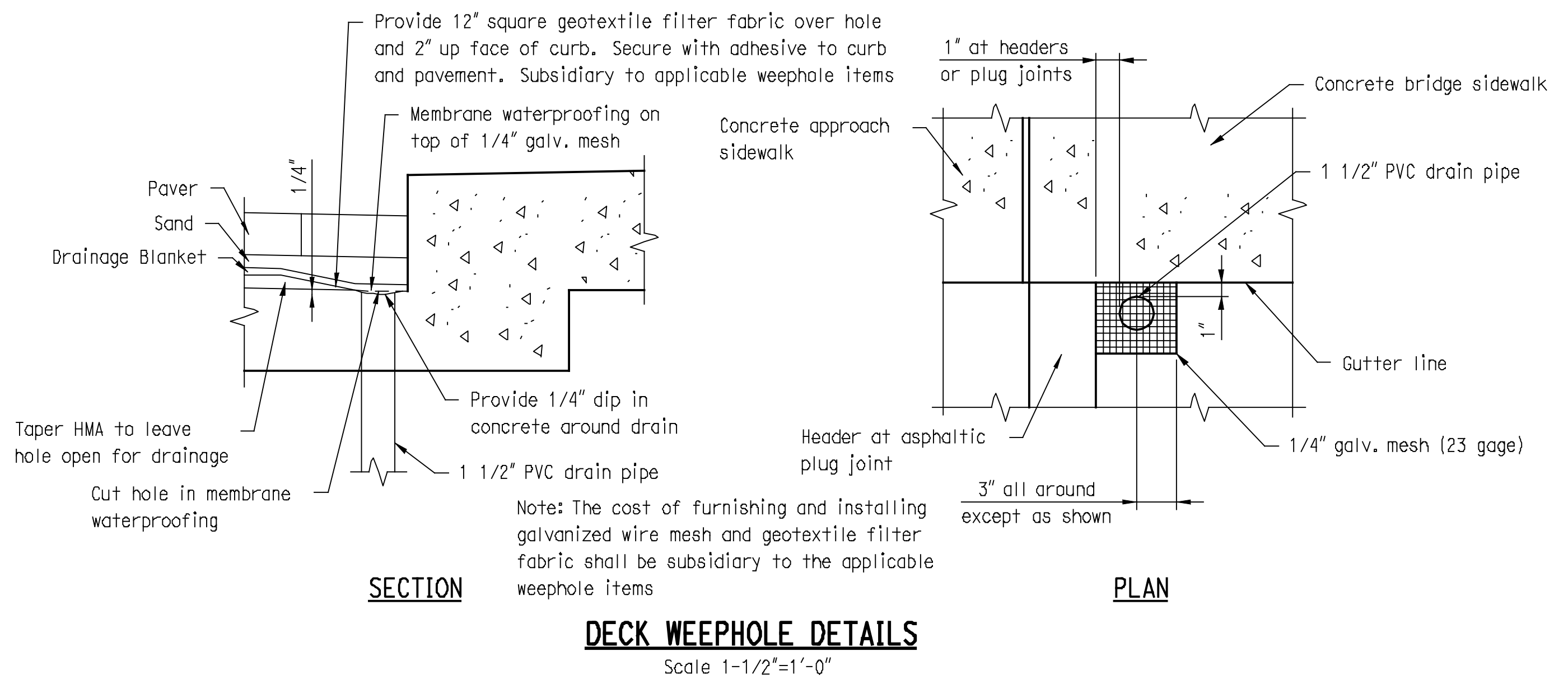
Filename: i:\16319 maple street\cad\bridge\Deck Details.dgn

ASPHALTIC PLUG JOINT NOTES:

1. Cement pavers shall be placed prior to placing approach pavement. Approach pavement shall be placed up to cement pavers.
2. After approach pavement is placed, saw cut pavement 2" deep, 20" from edge of pavers. Remove pavement between saw cut and pavers. Install the asphaltic plug expansion joint system.
3. All costs for cutting and removing pavement, installing backer rod, silicone sealant, bridging plate, centering pin and asphaltic plug shall be included in the Asphaltic Plug Expansion Joint System.



ASPHALTIC PLUG JOINT DETAILS
SCALE: 1/2"=1'-0"



4/4/5:53 PM V:\CT\DOT\Workspaces\standards\tables\pen\DOT_pentable_black.tbl
3:\Bentley\Maple Street\Road\bridge\Deck_Details_2.dgn
5/11/2012

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 5/11/2012

DESIGNER/DRAFTER: **CRH**
CHECKED BY: **RJF**
SCALE AS NOTED

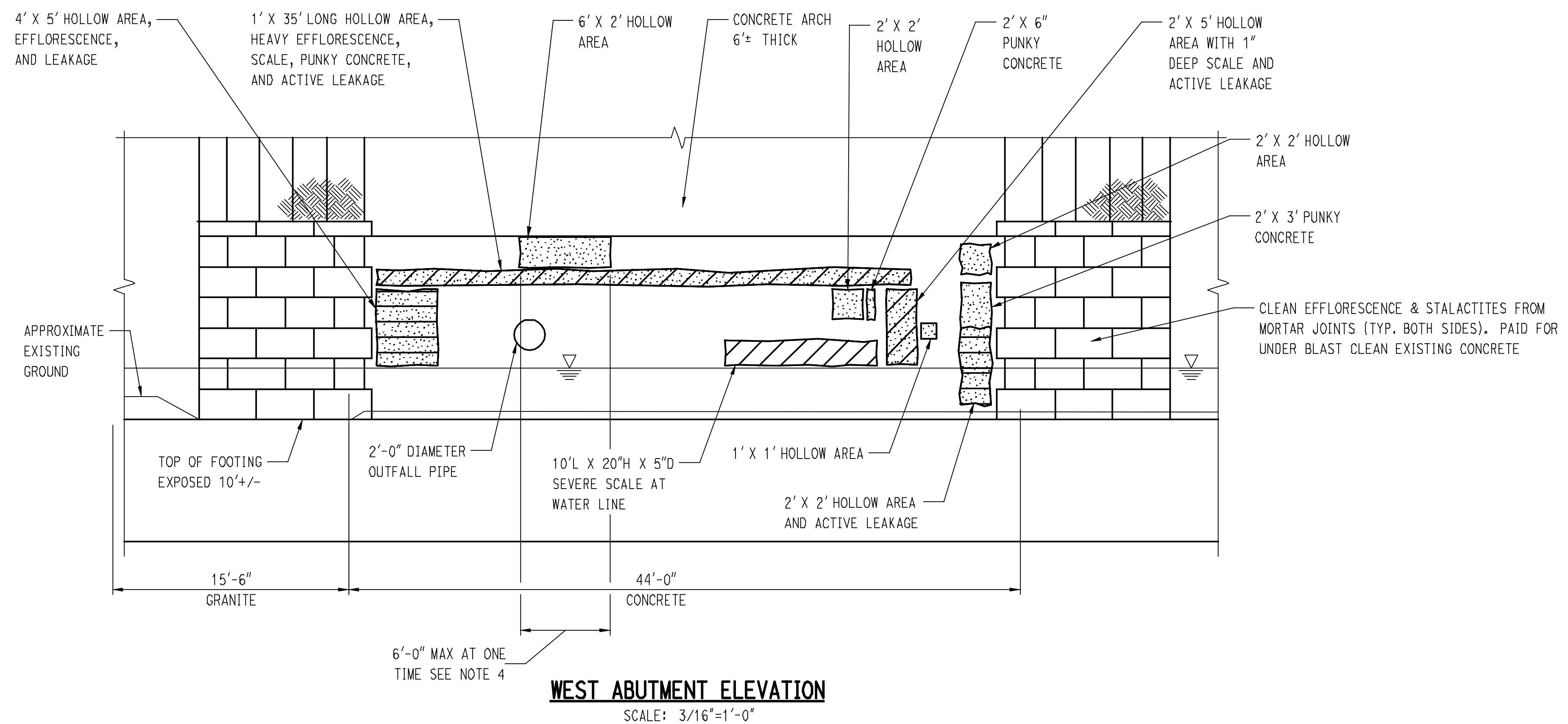
BOROUGH OF NAUGATUCK
DEPARTMENT OF PUBLIC WORKS

FILENAME: i:\16319 maple street\road\bridge\Deck_Details_2.dgn

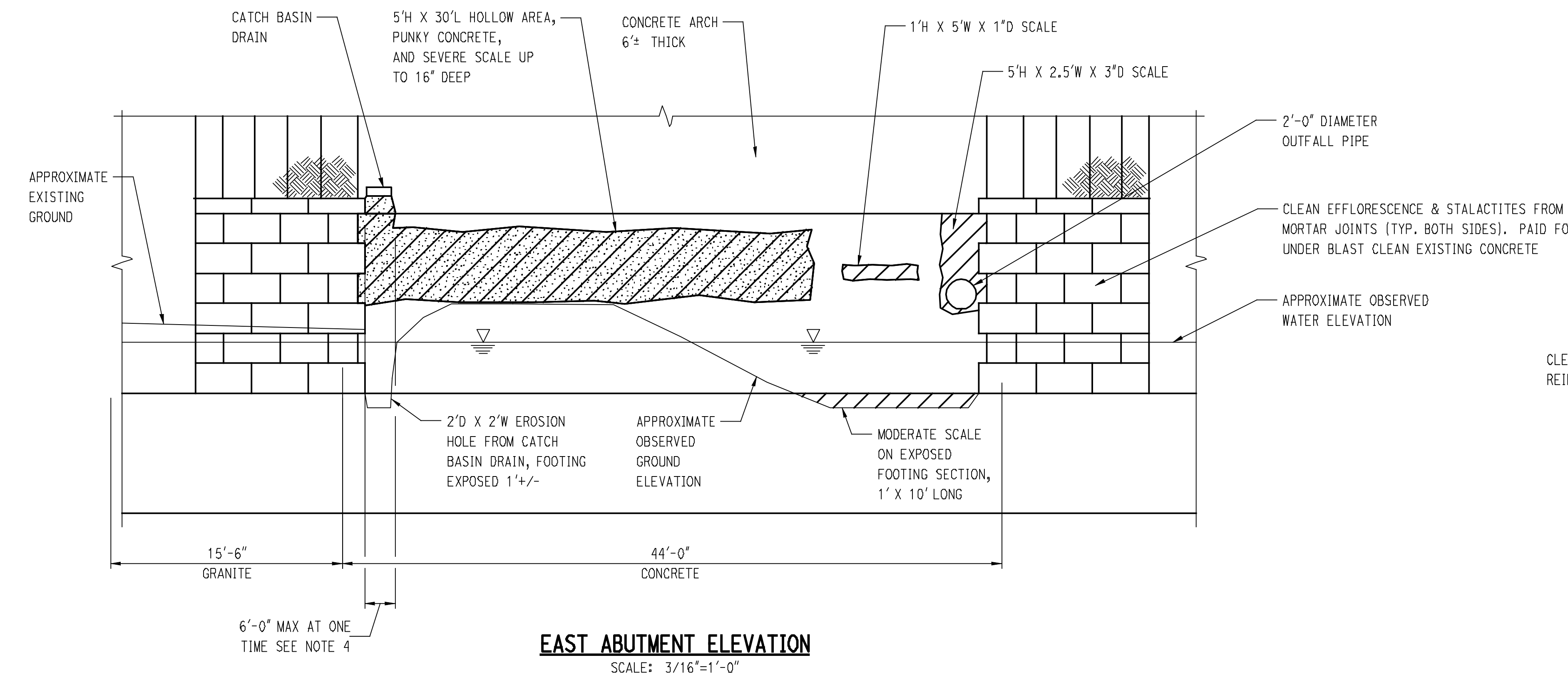
CIA
CLOUGH HARBOUR & ASSOCIATES LLP
2150 Blue Ocean Highway, Suite 212, Rocky Hill, CT 06067-2108
Main: (860) 457-4527 www.cia-engineers.com

PROJECT TITLE: **MAPLE STREET OVER NAUGATUCK RIVER**

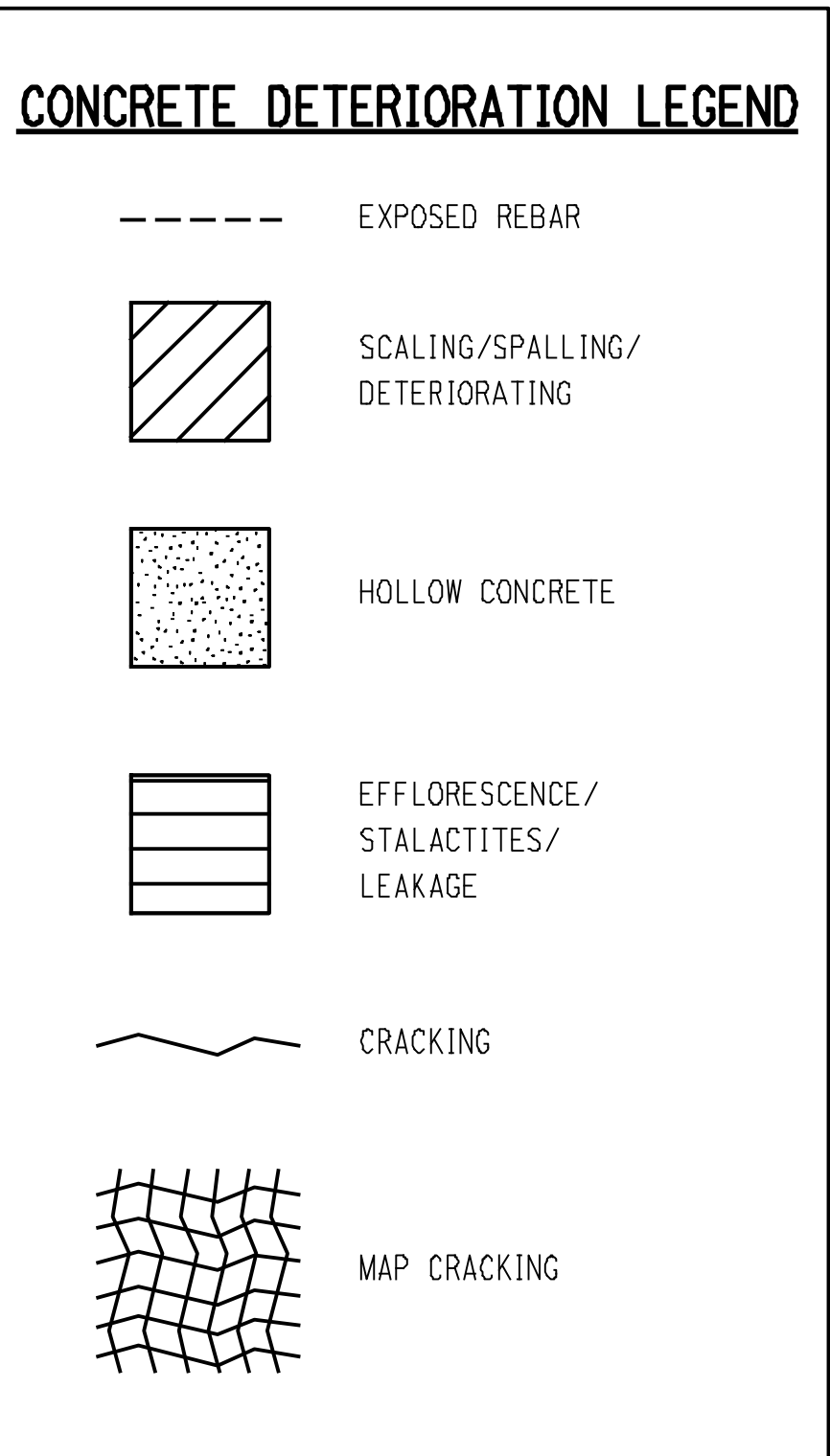
TOWN: NAUGATUCK	PROJECT NO. 9087-4214
DRAWING TITLE: DECK DETAILS 2 OF 2	DRAWING NO.
	SHEET NO. 13 of 25



WEST ABUTMENT ELEVATION
SCALE: 3/16"=1'-0"

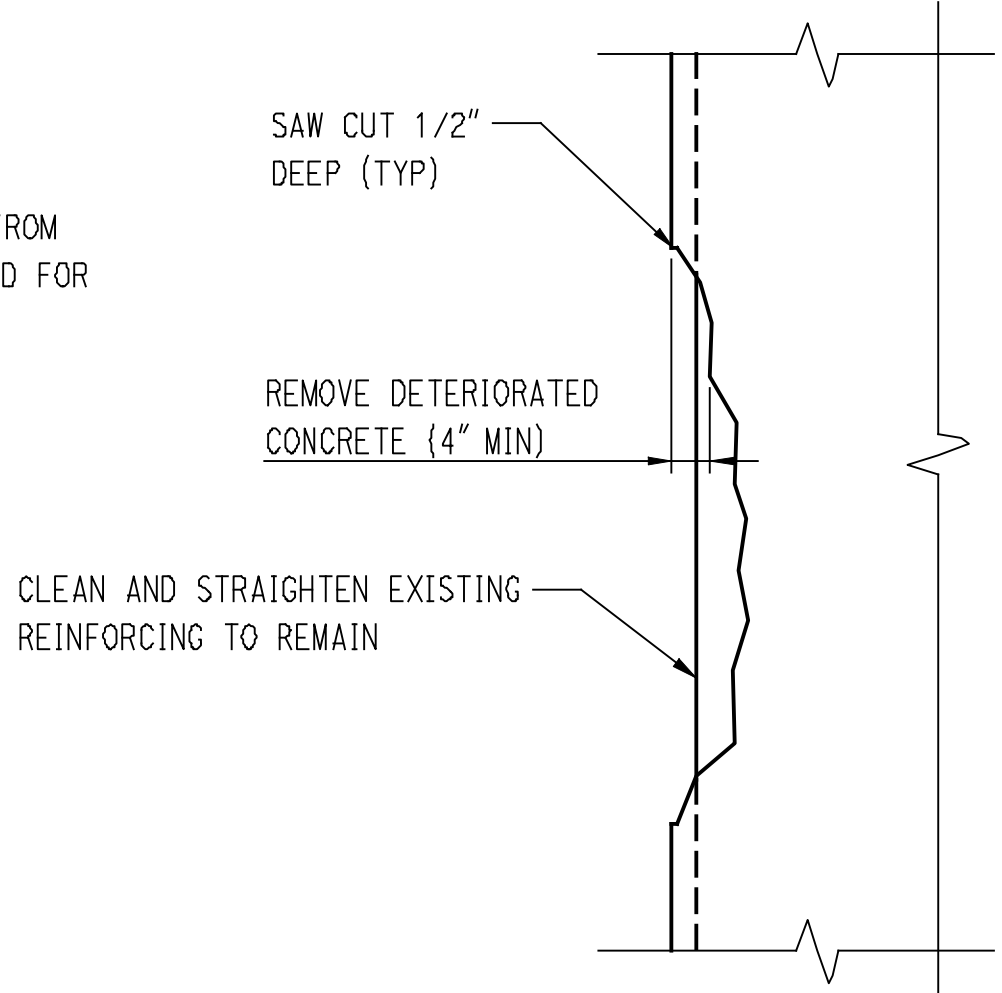


EAST ABUTMENT ELEVATION
SCALE: 3/16"=1'-0"

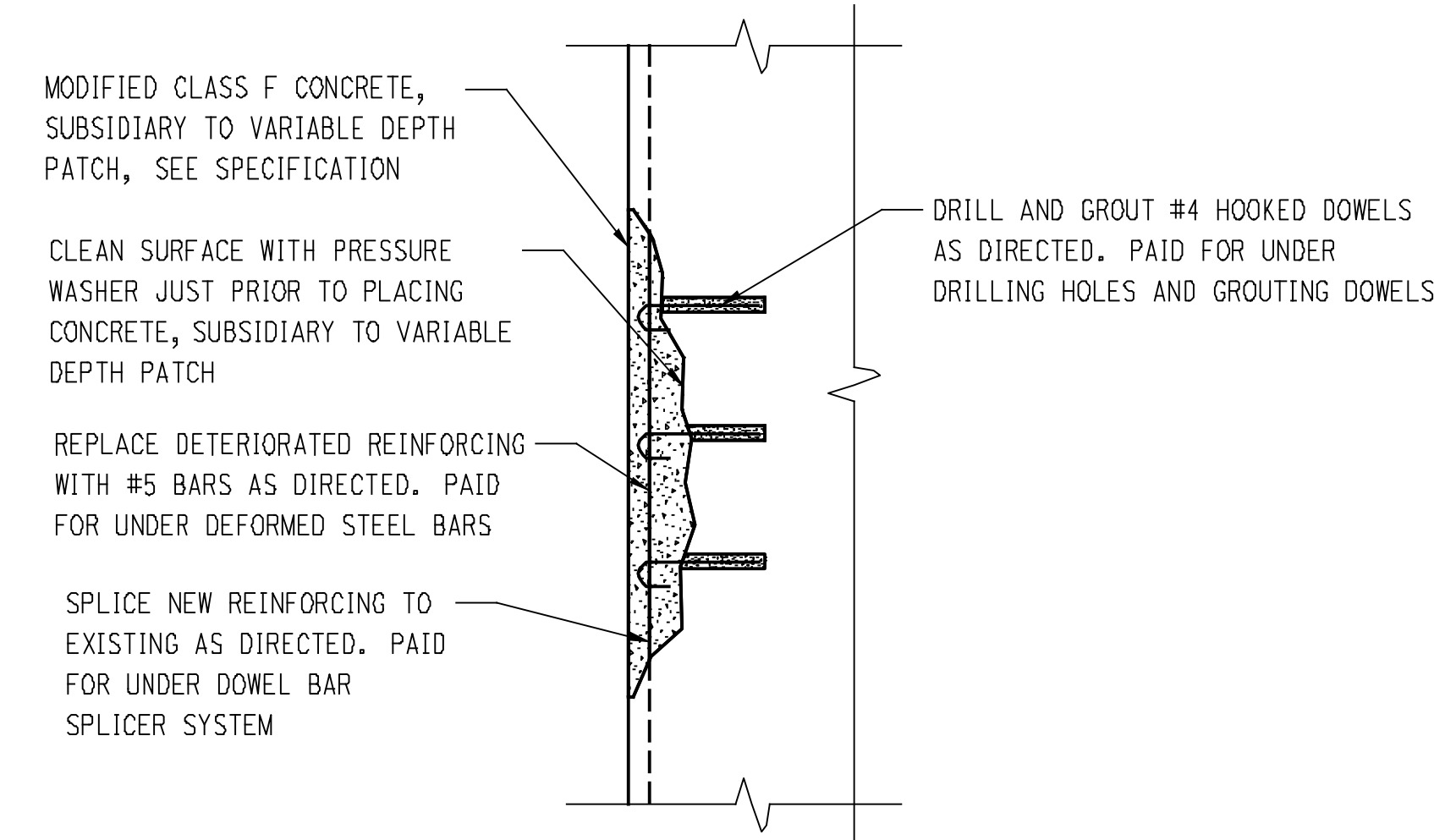


CONCRETE REPAIR NOTES:

1. PRIOR TO ANY DEMOLITION, THE EXISTING STRUCTURE SHALL BE INSPECTED FOR DETERIORATED CONCRETE JOINTLY BY THE ENGINEER AND CONTRACTOR AND MARKED. THE CONCRETE SHALL BE SAW CUT 1/2" DEEP WHERE MARKED AND ALL DETERIORATED CONCRETE SHALL BE REMOVED. THE CONCRETE SURFACES SHALL BE PRESSURE WASHED PRIOR TO PLACING THE NEW CONCRETE. COST OF INSPECTION, SAW CUTTING, REMOVAL, CLEANING, AND PLACING CONCRETE SHALL BE INCLUDED IN VARIABLE DEPTH PATCH.
2. CARE SHALL BE TAKEN TO NOT DAMAGE ANY EXISTING REINFORCING. EXISTING REINFORCING SHALL BE CLEANED AND STRAIGHTENED TO FIT BACK IN THE NEW STRUCTURE. CLEANING OR STRAIGHTENING REINFORCING IS INCLUDED IN VARIABLE DEPTH PATCH. REINFORCING THAT IS DETERIORATED SHALL BE REPLACED OR SPLICED TO NEW REINFORCING AS DIRECTED BY THE ENGINEER. NEW REINFORCING WILL BE PAID FOR UNDER DEFORMED STEEL BARS. REINFORCING THAT IS DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED WITHOUT COMPENSATION.
3. CONCRETE SHALL BE REMOVED BY SMALL CHIPPING HAMMERS WEIGHING LESS THAN 20 LBS WITH THE BIT REMOVED. ONLY CHISEL POINT BITS SHALL BE USED. BITS SHALL BE RE-SHARPENED AS DIRECTED BY THE ENGINEER. SHARPENING BITS IS INCLUDED IN VARIABLE DEPTH PATCH. BITS SHALL BE ORIENTED AT AN ANGLE LESS THAN 60 DEGREES TO THE CONCRETE SURFACE DURING CHIPPING SO AS TO NOT CAUSE IMPACT FRACTURES TO THE CONCRETE TO REMAIN.
4. THE AMOUNT OF CONCRETE THAT CAN BE REMOVED PRIOR TO REPLACING WITH NEW CONCRETE IS LIMITED. THE STRUCTURE SHALL BE REPAIRED IN 6' - 0" (MAX) WIDE STRIPS. THE DETERIORATED CONCRETE WITHIN A STRIP SHALL BE REMOVED AND REPAIRED PRIOR TO PROCEEDING WITH AN ADJACENT STRIP. THE INTENT IS TO MAINTAIN THE INTEGRITY OF THE ARCH TO SUPPORT DEAD LOAD ONLY WHILE REPAIRING DETERIORATED CONCRETE. CONTRACTOR BID PRICE SHALL ACCOUNT FOR REPAIRING THE BRIDGE IN MULTIPLE STRIPS IN EACH STAGE.
5. CONTRACTOR SHALL USE TARPS OR OTHER DEBRIS SHIELD UNDER AREAS OF DEMOLITION TO COLLECT DEBRIS. CONTRACTOR SHALL PICK UP ANY DEBRIS THAT FALLS ON THE GROUND AT THE END OF EACH DAY AND AS DIRECTED BY THE ENGINEER.
6. THE LIMITS OF DETERIORATION SHOWN ON THE PLANS WAS TAKEN FROM FIELD INSPECTION REPORTS. THESE REPORTS ARE AVAILABLE FOR REVIEW FROM THE CONNECTICUT DEPARTMENT OF TRANSPORTATION. PETROGRAPHIC TEST REPORTS ON THE DURABILITY AND SOUNDNESS OF THE CONCRETE ARE AVAILABLE FROM THE BOROUGH OF NAUGATUCK. THE ACTUAL LIMITS TO BE REPAIRED MAY BE SIGNIFICANTLY DIFFERENT FROM THOSE SHOWN. THE CONTRACTOR SHALL PROVIDE THE ENGINEER ACCESS TO ALL CONCRETE SURFACES. THE CONTRACTOR AND ENGINEER SHALL DETERMINE AND MARK THE ACTUAL LIMITS OF REMOVAL IN THE FIELD.



CONCRETE REMOVAL DETAIL



CONCRETE REPAIR DETAIL

4/4/2012 4:57 PM C:\Users\jerry\Documents\Projects\Standard\Abutment\Detail.dwg 5/11/2012

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

DESIGNER/DRAFTER: **CRH**
CHECKED BY: **RJF**
SCALE AS NOTED

BOROUGH OF NAUGATUCK
DEPARTMENT OF PUBLIC WORKS

CIA
CLOUGH HARBOUR & ASSOCIATES LLP
2150 Blue Cove Highway, Suite 212, Rocky Hill, CT 06109-2100
Maple Street Over Naugatuck River

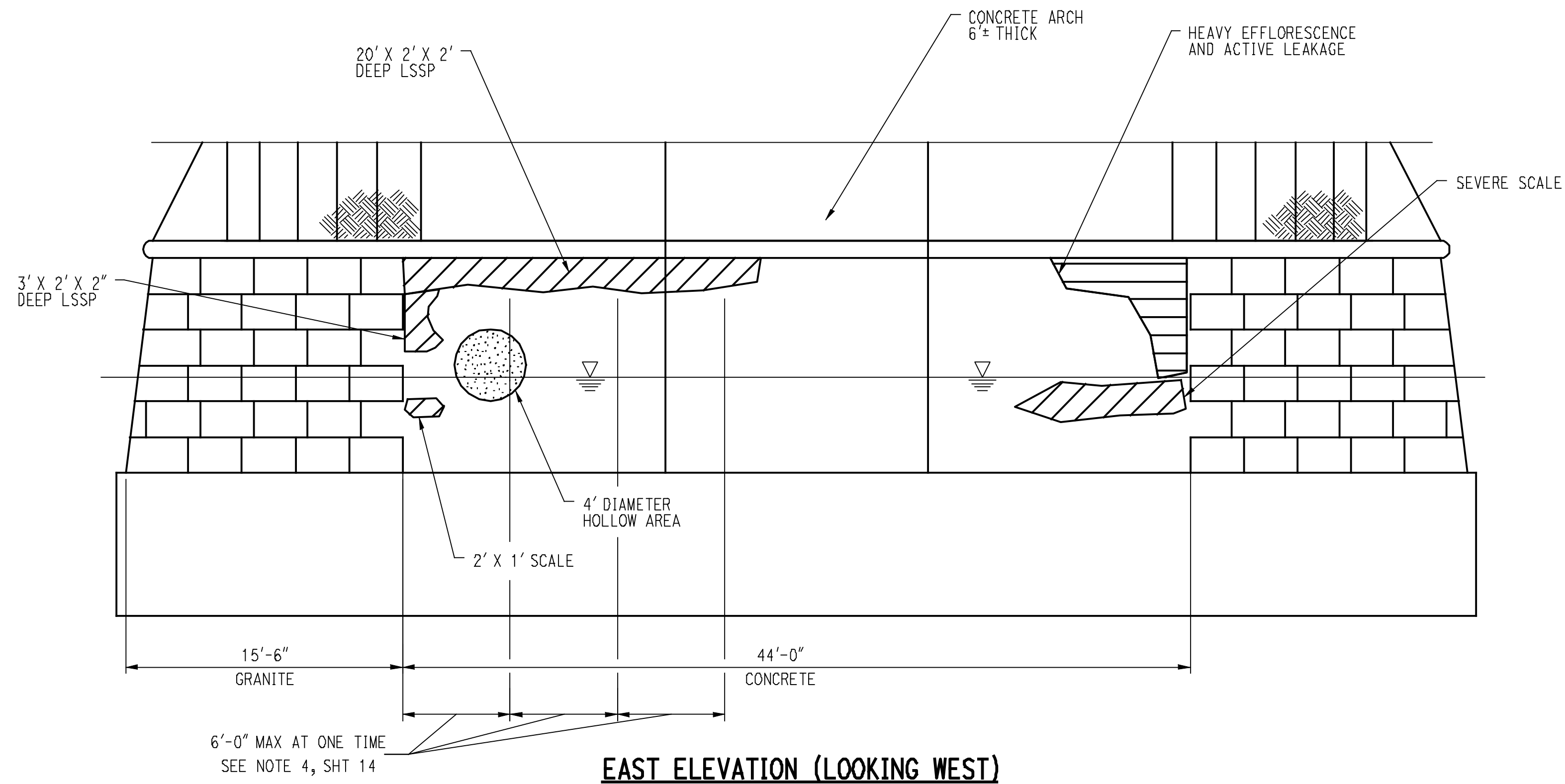
PROJECT TITLE: **MAPLE STREET OVER NAUGATUCK RIVER**

TOWN: **NAUGATUCK**
PROJECT NO.: **9087-4214**
DRAWING TITLE: **ABUTMENT REPAIR DETAIL**
SHEET NO.: **14** of **25**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

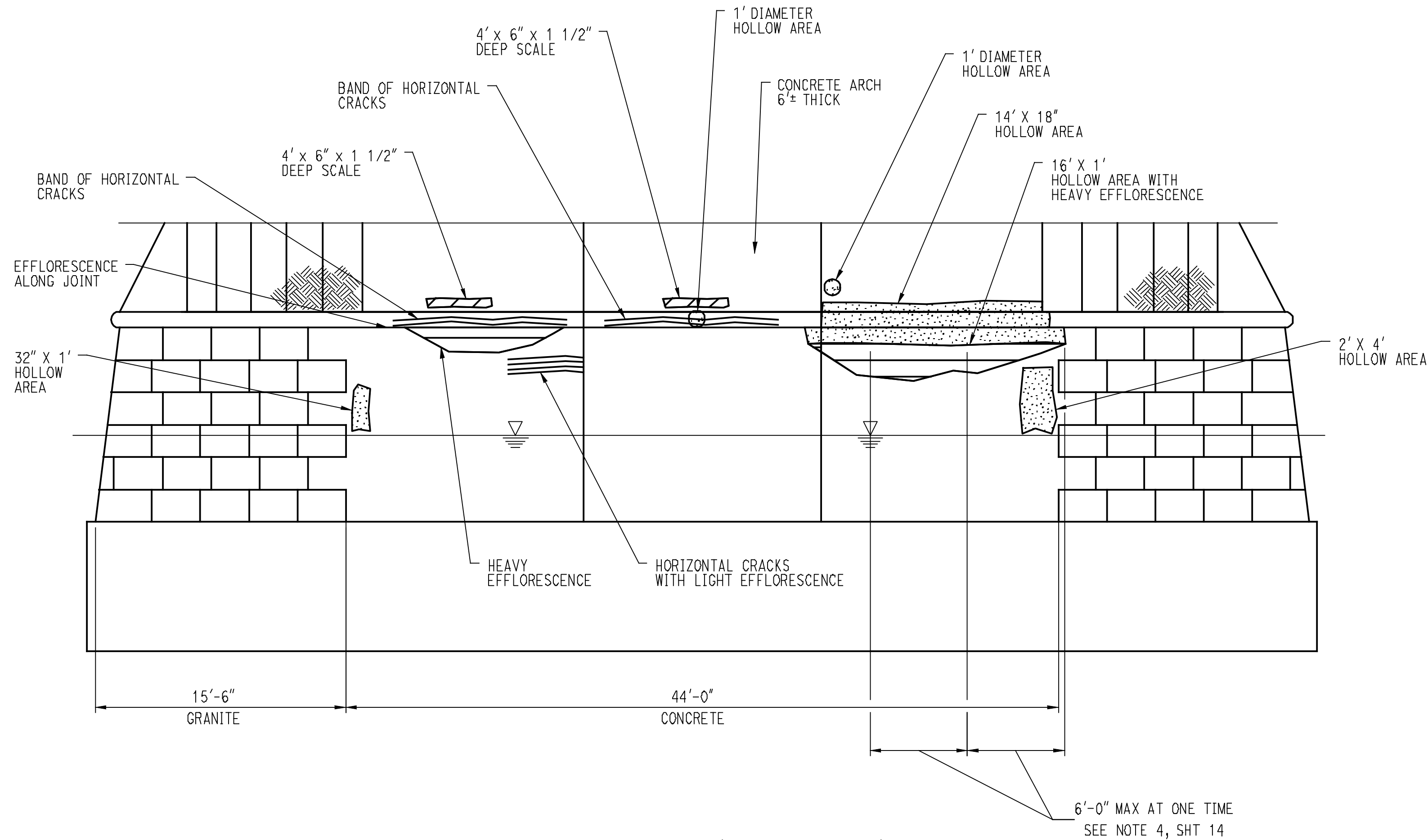
Plot Date: 5/11/2012

Filename: i:\16319 maple str\et\cad\bridge\AbutRepairDetail.dgn



EAST ELEVATION (LOOKING WEST)

SCALE: 3/16"=1'-0"



WEST ELEVATION (LOOKING EAST)

SCALE: 3/16"=1'-0"

NOTES:

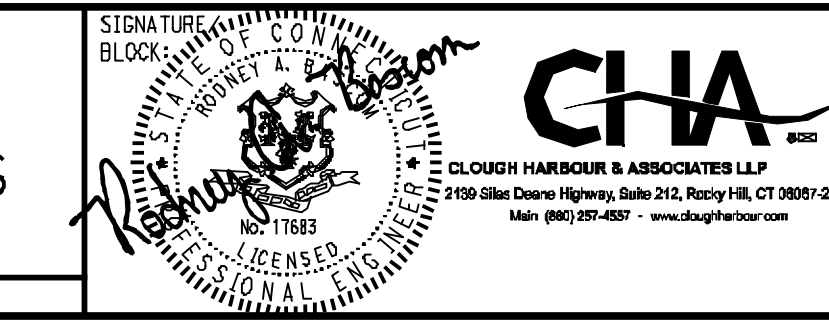
1. FOR CONCRETE REPAIR DETAILS, SEE SHEET 14.

4/16/02 PM
 3:11:59 PM
 5/11/2012

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE, AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

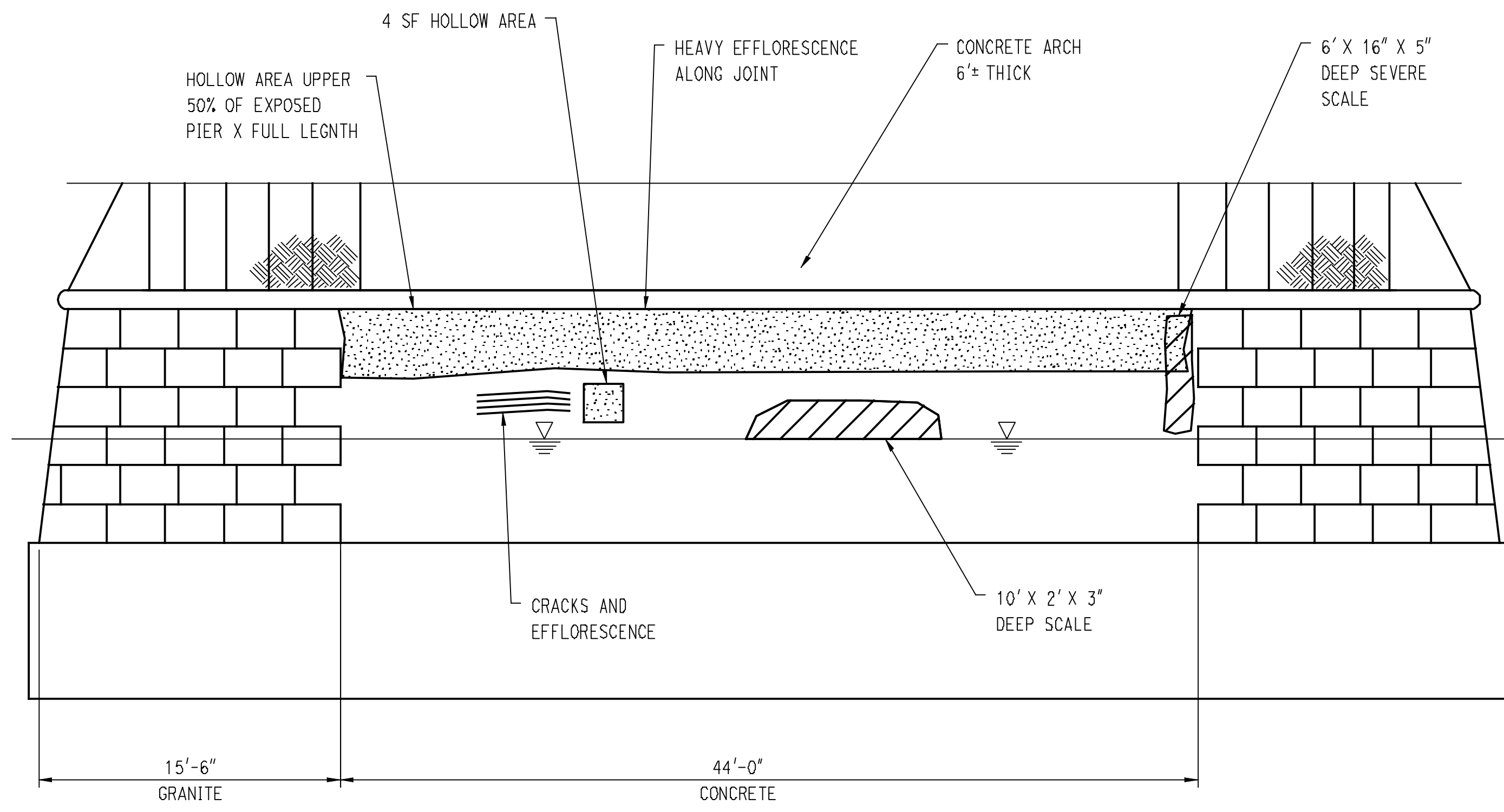
DESIGNER/DRAFTER: **CRH**
 CHECKED BY: **RJF**
 SCALE AS NOTED



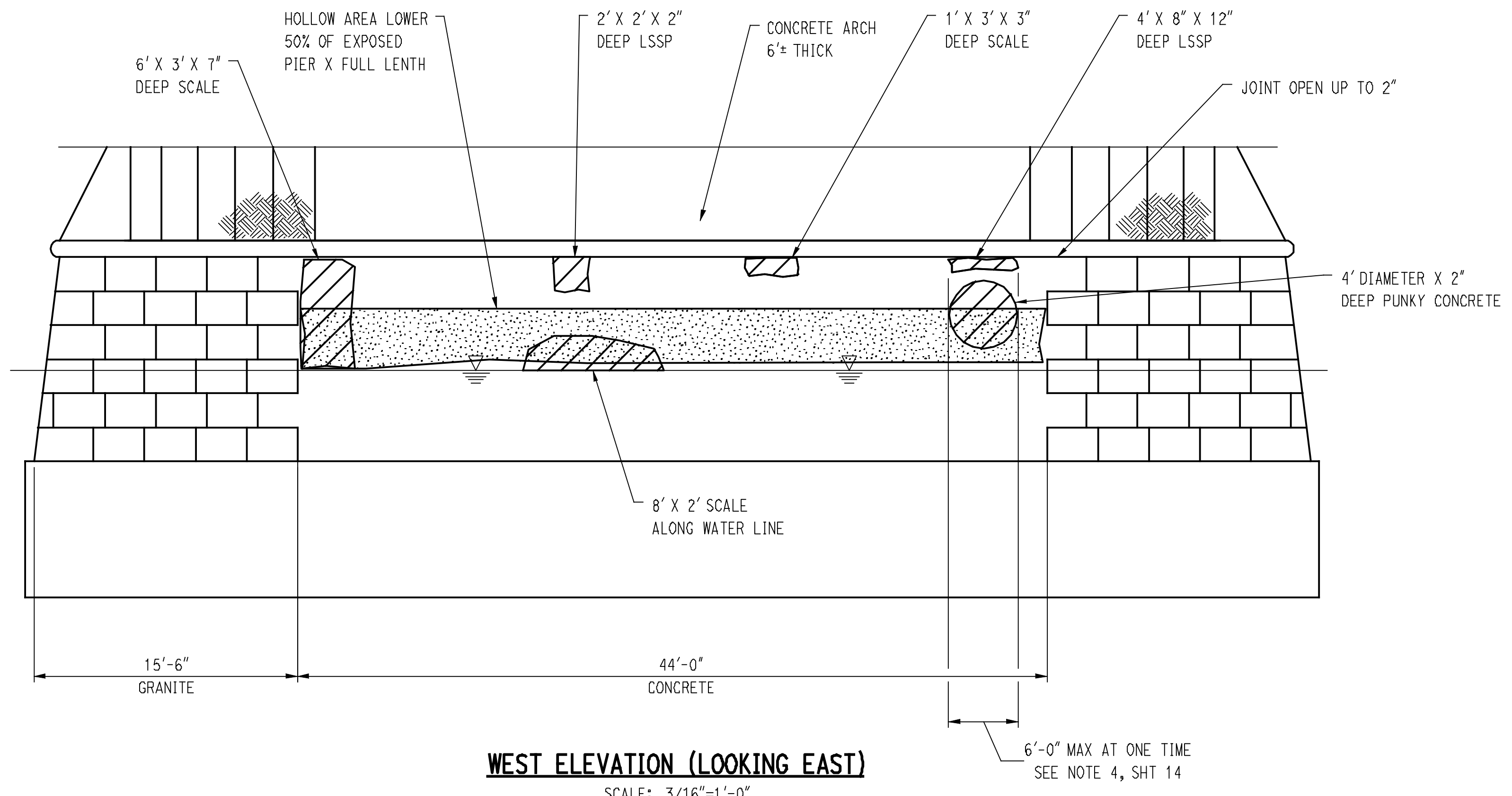
PROJECT TITLE: **MAPLE STREET OVER NAUGATUCK RIVER**

TOWN: NAUGATUCK	PROJECT NO. 9087-4214
DRAWING TITLE: PIER 1 REPAIR DETAIL	DRAWING NO.
	SHEET NO. 15 of 25

Filename: i:\16319 maple str\p1\cad\bridge\Pier1RepairDetail.dgn



EAST ELEVATION (LOOKING WEST)
SCALE: 3/16"=1'-0"



WEST ELEVATION (LOOKING EAST)
SCALE: 3/16"=1'-0"

NOTES:

- 1. FOR CONCRETE REPAIR DETAILS, SEE SHEET 14.

4:46:05 PM V:\CTDOT\Workspaces\standards\yachies\pen\CDOT_pier2repair_detail.dgn
 3:11:20 PM V:\CTDOT\Workspaces\standards\yachies\pen\CDOT_pier2repair_detail.dgn
 5/11/2012

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE, AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

DESIGNER/DRAFTER: **CRH**
 CHECKED BY: **RJF**
 SCALE AS NOTED

BOROUGH OF NAUGATUCK
 DEPARTMENT OF PUBLIC WORKS

Filename: i:\16319 maple str\pen\CDOT\Bridges\Pier2RepairDetail.dgn

SIGNATURE BLOCK

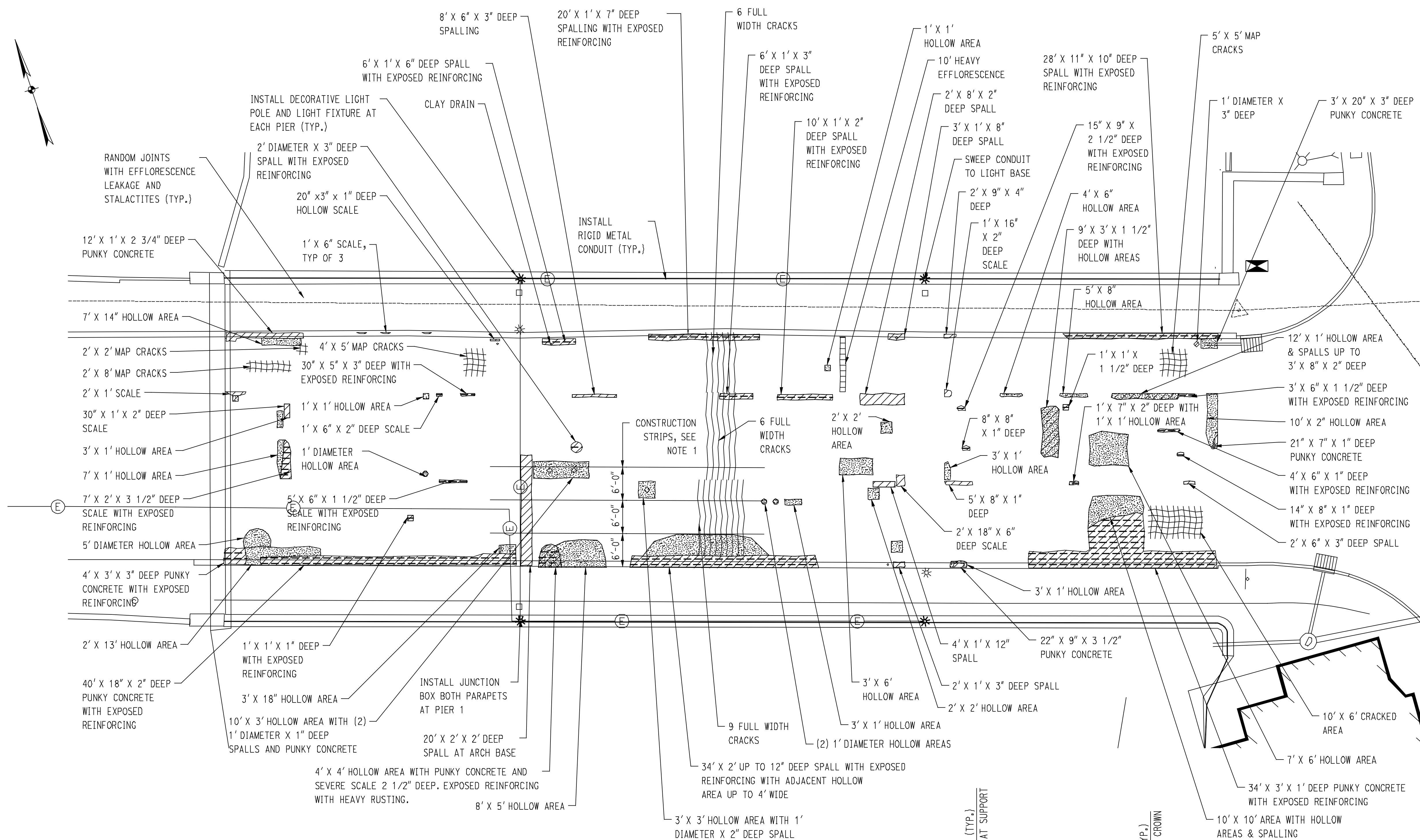
CIA
 CLOUGH HARBOUR & ASSOCIATES LLP
 2150 Silver Doree Highway, Suite 212, Rocky Hill, CT 06067-2508
 Main: (860) 457-4527 - www.cia-engineers.com

PROJECT TITLE: **MAPLE STREET OVER NAUGATUCK RIVER**

TOWN: NAUGATUCK	PROJECT NO.: 9087-4214
DRAWING TITLE: PIER 2 REPAIR DETAIL	DRAWING NO.:
	SHEET NO. 16 of 25

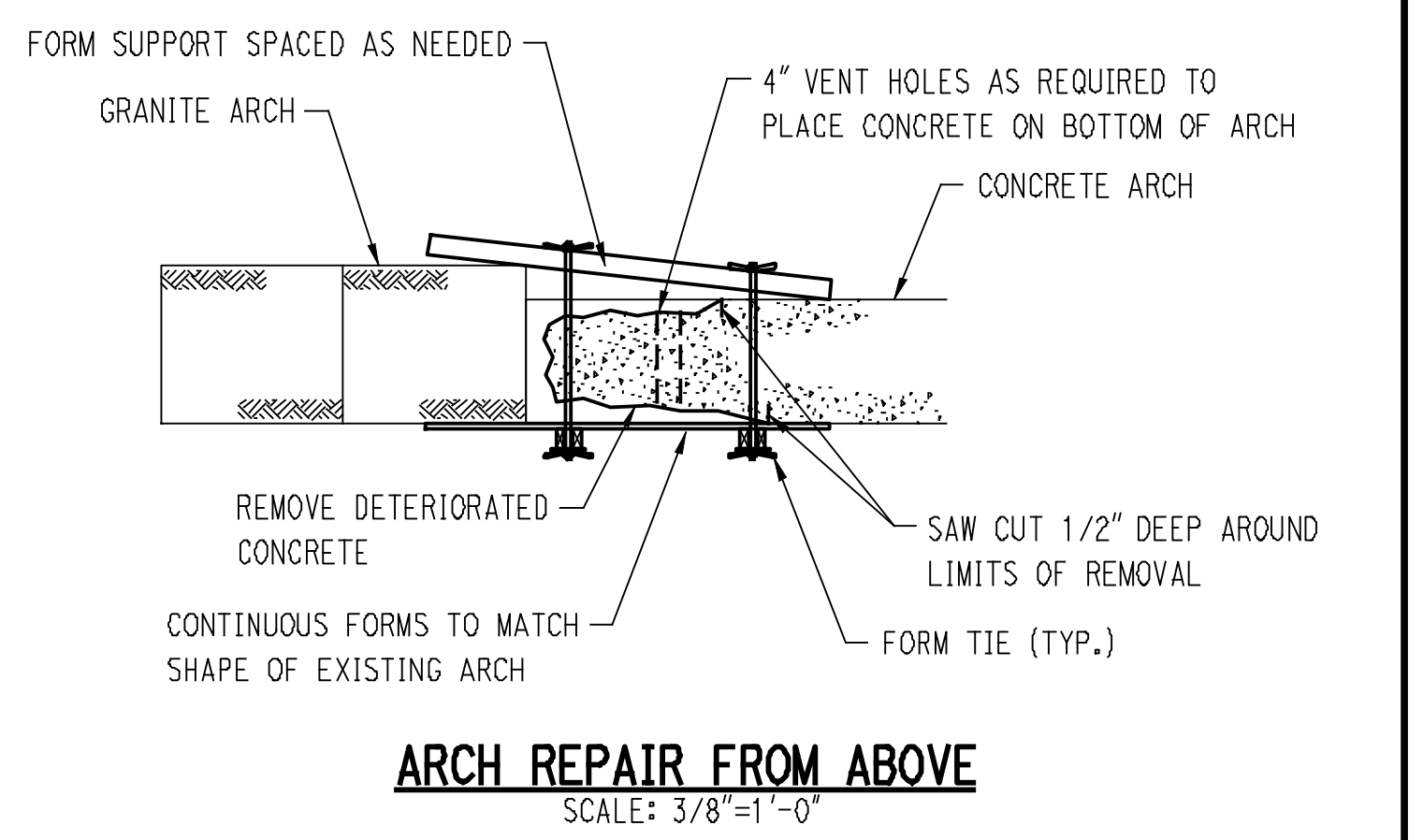
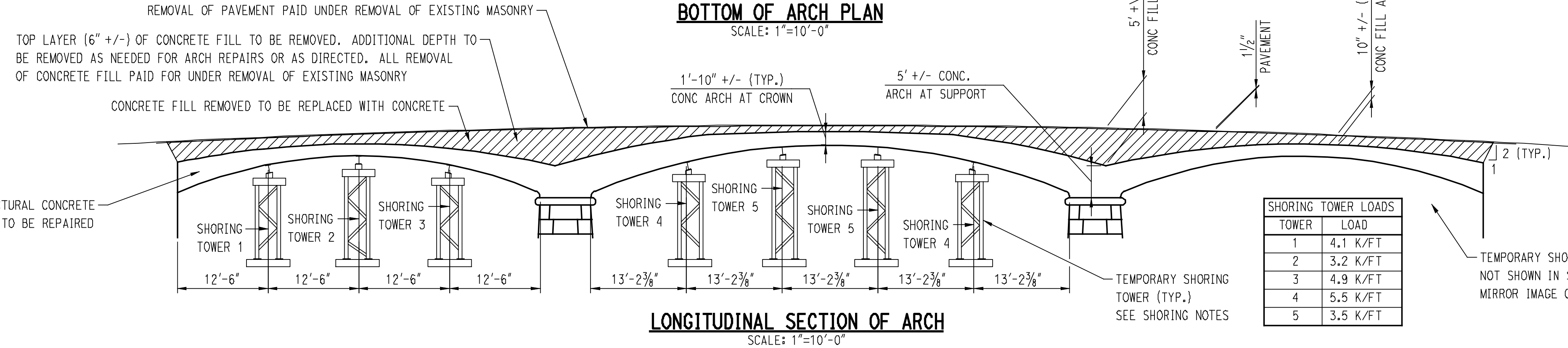
REV.	DATE	REVISION DESCRIPTION	SHEET NO.

Plotted Date: 5/11/2012



- NOTES:**
1. THE TOP AND BOTTOM OF THE ARCH SHALL BE REPAIRED AT THE SAME TIME UNDER TEMPORARY SUPPORT.
 2. DEMOLITION OF THE STRUCTURE IS LIMITED TO A 6'-0" WIDE STRIP AT ANY ONE TIME. THE REMOVED CONCRETE SHALL BE REPLACED PRIOR TO DEMOLITION OF ADDITIONAL WIDTH OF STRUCTURE. SEE REPAIR NOTES SHEET 14.
 3. REMOVAL OF BRIDGE PAVEMENT, BRIDGE SIDEWALK, PARAPETS, AND FILL OVER THE ARCH SHALL BE PAID UNDER REMOVAL OF EXISTING MASONRY.
 4. REMOVAL OF BRIDGE RAIL WILL BE PAID UNDER REMOVAL OF EXISTING METAL BRIDGE RAIL.
 5. REMOVAL, STORAGE, AND ALL TRANSPORTATION/HANDLING OF STREET LIGHTS AND POLES SHALL BE PAID UNDER REMOVE LIGHT STANDARD.
 6. REMOVAL, STORAGE AND ALL TRANSPORTATION/HANDLING OF EXISTING GRANITE BRIDGE CURB SHALL BE PAID UNDER REMOVAL OF GRANITE STONE CURBING.
 7. REMOVAL OF ALL OTHER ITEMS ON THE BRIDGE INCLUDING CONDUITS, ANCHOR BOLTS, PULL BOXES OR ABANDONED UTILITIES SHALL BE SUBSIDIARY TO REMOVAL OF EXISTING MASONRY.
 8. FOR ADDITIONAL DEMOLITION DETAILS, SEE STAGING CROSS SECTIONS SHEETS 22 AND 23.
 9. THE NEW CONCRETE SHALL BE FORMED AND POURED FROM ABOVE THE ARCH USING VENT HOLES IN THE CONCRETE. ALL COST OF VENT HOLES SHALL BE INCLUDED IN VARIABLE DEPTH PATCH. CONTRACTOR SHALL NOT CUT ANY REINFORCING WHEN CUTTING VENT HOLES. CONTRACTOR MAY PROPOSE SHOTCRETE OR OTHER METHOD OF REPAIR FOR REVIEW.
 10. FOR ADDITIONAL CONCRETE REPAIR NOTES, SEE SHEET 14.

- SHORING NOTES:**
1. TEMPORARY SHORING TOWERS SHALL BE INSTALLED AS SHOWN TO SUPPORT THE ARCH DURING REPAIRS THAT EXPOSE REINFORCING BARS OR WHEN DIRECTED.
 2. THE TOWERS SHALL ONLY BE INSTALLED WITHIN THE COFFERDAM.
 3. THE TRANSVERSE BEAM SHALL PROVIDE CONTINUOUS SUPPORT TO THE ARCH IN THE TRANSVERSE DIRECTION. THE TRANSVERSE BEAM SHALL BE JACKED TO THE LOADS INDICATED IN THE SHORING TOWER LOAD TABLE PRIOR TO REMOVING CONCRETE FROM THE ARCH.
 4. THE JACKING SYSTEM SHALL PROVIDE A MEANS OF DIRECTLY MONITORING AND MAINTAINING THE LOADS IN THE TRANSVERSE BEAM.
 5. THE ARCH SHALL BE SUPPORTED WHEN REPAIRING THE TOP AND THE BOTTOM OF THE ARCH.
 6. CONTRACTOR SHALL SUBMIT DRAWINGS AND CALCULATIONS FOR THE TOWERS AND JACKING SYSTEM FOR APPROVAL.
 7. TOWERS WILL BE PAID FOR PER TRANSVERSE LINEAL FOOT OF ARCH SUPPORTED. ALL STAGES MAY NOT REQUIRE TOWERS DEPENDING ON THE EXTENT OF REPAIRS. NEED FOR TOWERS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.



4:46:08 PM
 I:\Projects\10111111\10111111.dwg
 5/11/2012

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 5/11/2012

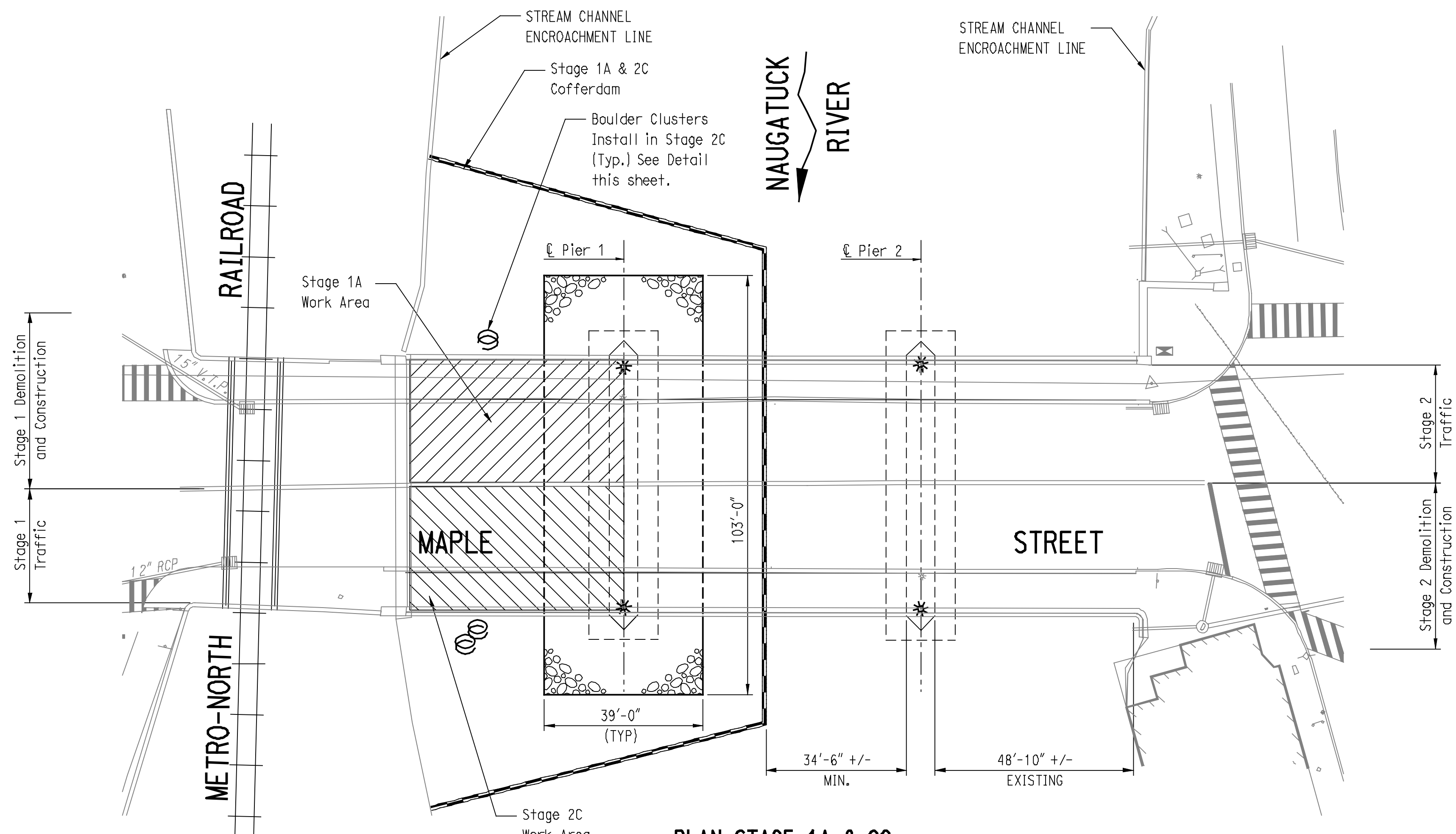
DESIGNER/DRAWN: **CRH**
 CHECKED BY: **RJF**
 SCALE AS NOTED

BOROUGH OF NAUGATUCK
 DEPARTMENT OF PUBLIC WORKS

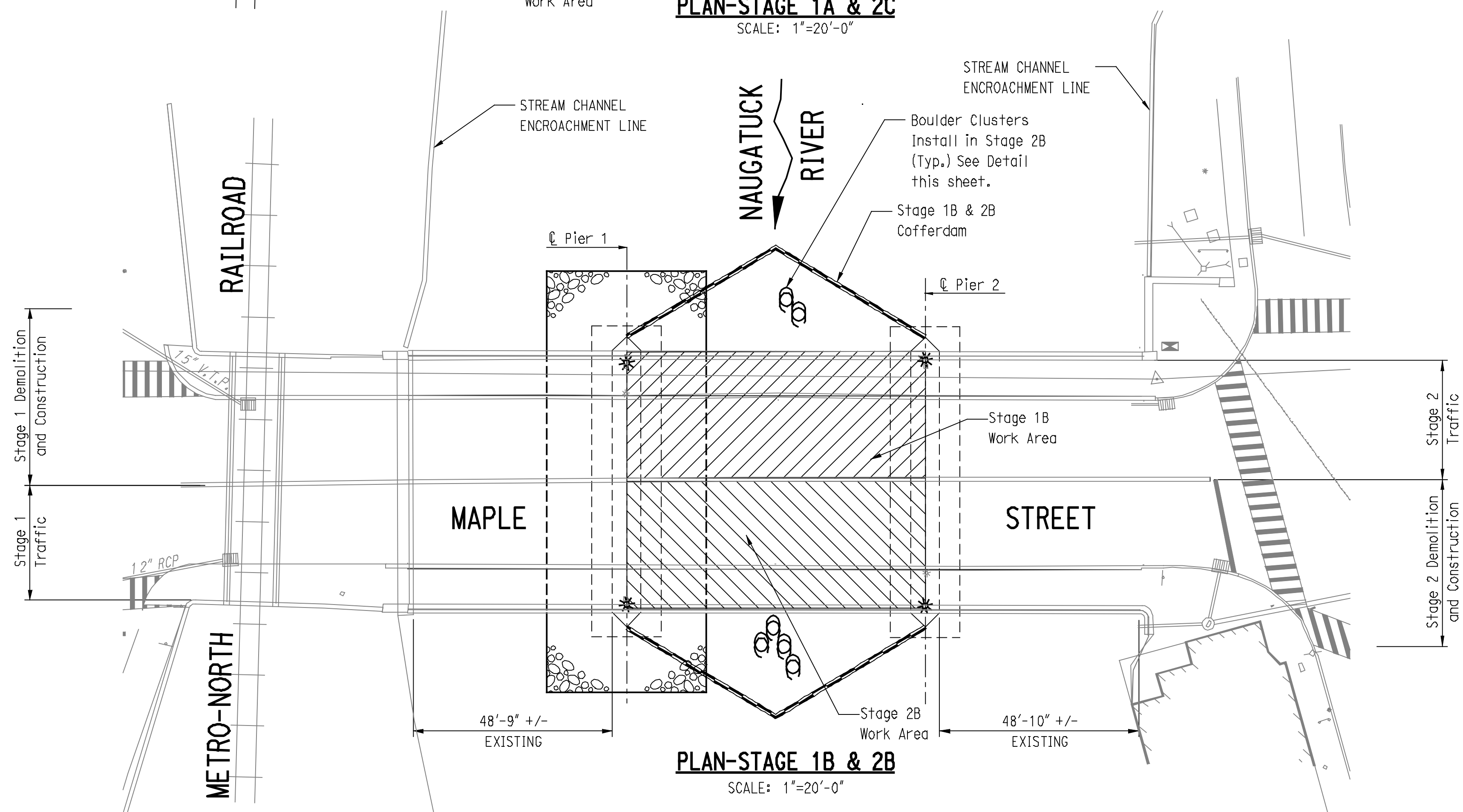
CIA
 CLOUGH HANCOCK & ASSOCIATES LLP
 2130 State Street, Suite 212, Rocky Hill, CT 06067-2230
 Phone: (860) 411-4527

PROJECT TITLE:
MAPLE STREET OVER NAUGATUCK RIVER

TOWN: **NAUGATUCK**
 PROJECT NO.: **9087-4214**
 DRAWING TITLE: **ARCH REPAIR DETAIL**
 SHEET NO.: **17 of 25**



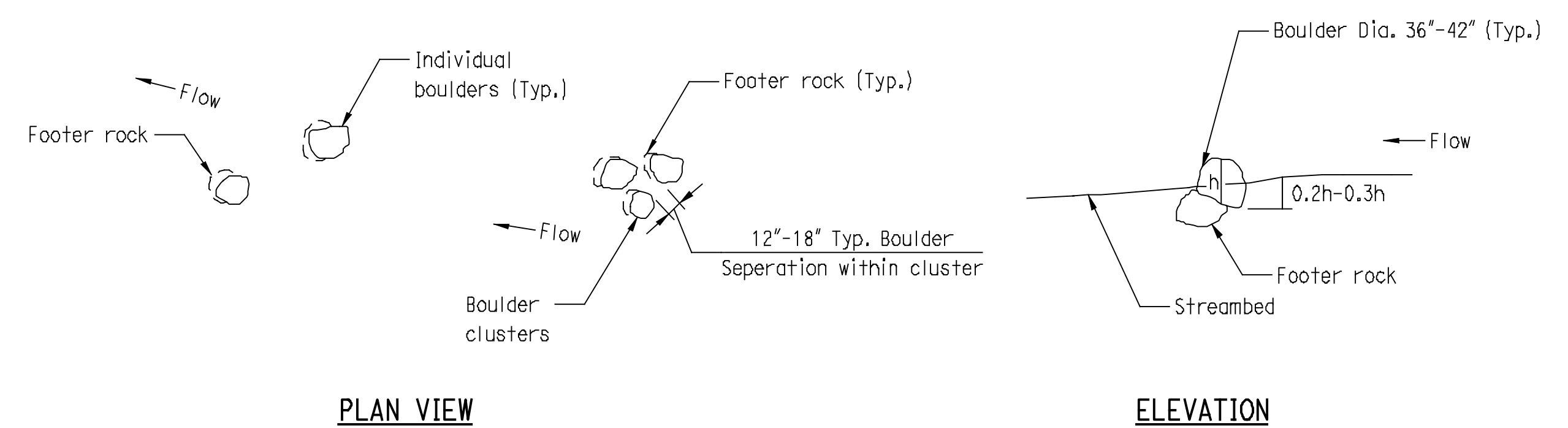
PLAN-STAGE 1A & 2C
SCALE: 1"=20'-0"



PLAN-STAGE 1B & 2B
SCALE: 1"=20'-0"

SEQUENCE OF CONSTRUCTION

1. WORK SHALL BE PERFORMED IN SIX STAGES. STAGES 1A THRU 1C WILL BE WITH TRAFFIC ON THE SOUTH SIDE OF THE BRIDGE. STAGES 2A THRU 2C WILL BE PERFORMED WITH TRAFFIC ON THE NORTH SIDE OF THE BRIDGE.
2. ESTABLISH STAGE 1 TRAFFIC CONTROL (SEE STAGE 1 PLAN, SHEET 19). DETOUR WESTBOUND TRAFFIC (SEE DETOUR PLAN, SHEET 24). MAINTAIN EASTBOUND TRAFFIC ON EXISTING EASTBOUND TRAVEL WAY. MAINTAIN PEDESTRIAN ACCESS ON EXISTING SOUTHERN SIDEWALK.
3. INSTALL STAGE 1A COFFERDAM.
4. PERFORM PROPOSED REPAIRS TO WEST ABUTMENT, PIER 1, AND NORTH HALF OF SPAN 1.
5. REMOVE STAGE 1A COFFERDAM AND INSTALL STAGE 1B COFFERDAM. MAINTAIN STAGE 1 TRAFFIC CONTROL.
6. PERFORM REPAIRS TO NORTH HALF OF SPAN 2.
7. REMOVE STAGE 1B COFFERDAM AND INSTALL STAGE 1C COFFERDAM. MAINTAIN STAGE 1 TRAFFIC CONTROL.
8. PERFORM PROPOSED REPAIRS TO EAST ABUTMENT, PIER 2, AND NORTH HALF OF SPAN 3.
9. CHANGE TO STAGE 2 TRAFFIC CONTROL (SEE STAGE 2 PLAN, SHEET 21). MAINTAIN WESTBOUND TRAFFIC DETOUR. SHIFT EASTBOUND TRAFFIC TO NORTH SIDE OF BRIDGE. SHIFT PEDESTRIAN ACCESS TO NORTHERN SIDEWALK.
10. STAGE 1C COFFERDAM SHALL REMAIN IN PLACE AND BECOME STAGE 2A COFFERDAM.
11. PERFORM REPAIRS TO SOUTHERN HALF OF SPAN 3. INSTALL PROPOSED SCOUR COUNTERMEASURES AT PIER 1.
12. REMOVE STAGE 2A COFFERDAM AND INSTALL STAGE 2B COFFERDAM. MAINTAIN STAGE 2 TRAFFIC CONTROL.
13. PERFORM REPAIRS TO SOUTH HALF OF SPAN 2.
14. REMOVE STAGE 2B COFFERDAM AND INSTALL STAGE 2C COFFERDAM. MAINTAIN STAGE 2 TRAFFIC CONTROL.
15. PERFORM REPAIRS TO SOUTH HALF OF SPAN 1. INSTALL PROPOSED SCOUR COUNTERMEASURES AT PIER 1.
16. REMOVE ALL COFFERDAMS AND TRAFFIC CONTROL AND OPEN BRIDGE TO TRAFFIC.
17. BOULDERS OR BOULDER CLUSTERS (HABITAT ENHANCEMENT ELEMENTS) SHALL NOT BE PLACED WITHIN THE THALWEG. FINAL LOCATION OF THE BOULDERS OR BOULDER CLUSTERS SHALL BE ESTABLISHED IN THE FIELD.
18. BOULDERS SHALL BE UN CUT, DURABLE STONES, APPROXIMATELY RECTANGULAR IN SHAPE. DIMENSIONS OF STONES SHALL BE APPROXIMATELY 36" - 42" IN EQUIVALENT DIAMETER, MINIMUM WEIGHT 1500 LB. BOULDERS SHALL BE PAID FOR UNDER ROUNDED STONE RIPRAP.



PLACEMENT OF CHANNEL BOULDERS
N.T.S.

4/16/14 PM 3:11:20 5/11/2012

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

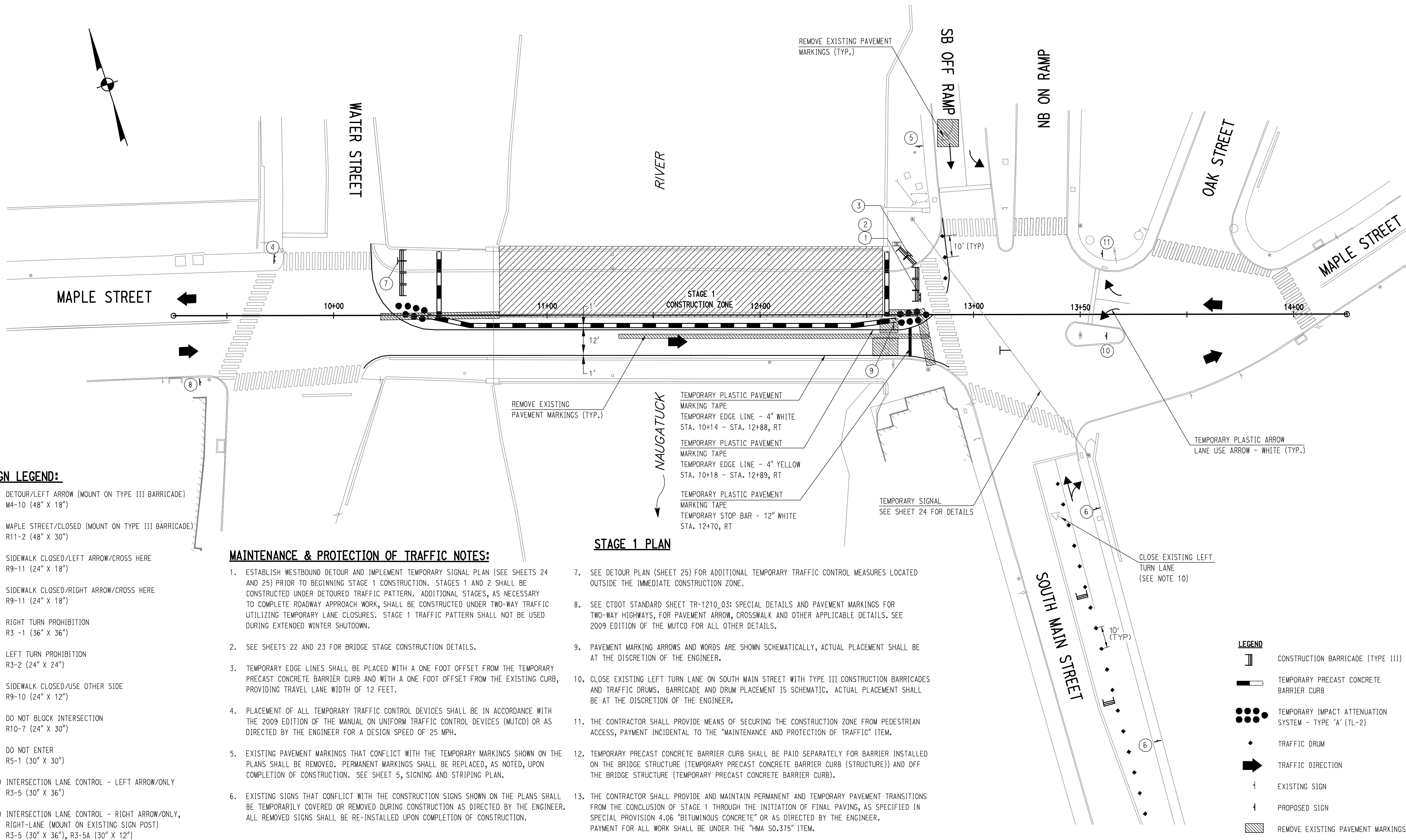
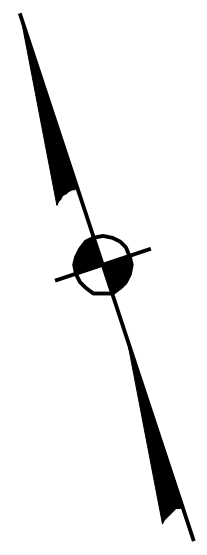
DESIGNER/DRAFTER: **CRH**
CHECKED BY: **RJF**
SCALE IN FEET
SCALE 1"=20'

BOROUGH OF NAUGATUCK
DEPARTMENT OF PUBLIC WORKS

CIA
CLOUGH HARBOUR & ASSOCIATES LLP
2150 Blue Cove Highway, Suite 212, Rocky Hill, CT 06067-2008
Tel: (860) 437-4607 - www.cia-engineers.com

PROJECT TITLE: **MAPLE STREET OVER NAUGATUCK RIVER**

TOWN: **NAUGATUCK**
PROJECT NO.: **9087-4214**
DRAWING NO.:
DRAWING TITLE: **CHANNEL PLAN 1 OF 2**
SHEET NO.: **18 of 25**



SIGN LEGEND:

- ① DETOUR/LEFT ARROW (MOUNT ON TYPE III BARRICADE) M4-10 (48" X 18")
- ② MAPLE STREET/CLOSED (MOUNT ON TYPE III BARRICADE) R11-2 (48" X 30")
- ③ SIDEWALK CLOSED/LEFT ARROW/CROSS HERE R9-11 (24" X 18")
- ④ SIDEWALK CLOSED/RIGHT ARROW/CROSS HERE R9-11 (24" X 18")
- ⑤ RIGHT TURN PROHIBITION R3-1 (36" X 36")
- ⑥ LEFT TURN PROHIBITION R3-2 (24" X 24")
- ⑦ SIDEWALK CLOSED/USE OTHER SIDE R9-10 (24" X 12")
- ⑧ DO NOT BLOCK INTERSECTION R10-7 (24" X 30")
- ⑨ DO NOT ENTER R5-1 (30" X 30")
- ⑩ INTERSECTION LANE CONTROL - LEFT ARROW/ONLY R3-5 (30" X 36")
- ⑪ INTERSECTION LANE CONTROL - RIGHT ARROW/ONLY, RIGHT-LANE (MOUNT ON EXISTING SIGN POST) R3-5 (30" X 36"), R3-5A (30" X 12")

MAINTENANCE & PROTECTION OF TRAFFIC NOTES:

1. ESTABLISH WESTBOUND DETOUR AND IMPLEMENT TEMPORARY SIGNAL PLAN (SEE SHEETS 24 AND 25) PRIOR TO BEGINNING STAGE 1 CONSTRUCTION. STAGES 1 AND 2 SHALL BE CONSTRUCTED UNDER DETOURED TRAFFIC PATTERN. ADDITIONAL STAGES, AS NECESSARY TO COMPLETE ROADWAY APPROACH WORK, SHALL BE CONSTRUCTED UNDER TWO-WAY TRAFFIC UTILIZING TEMPORARY LANE CLOSURES. STAGE 1 TRAFFIC PATTERN SHALL NOT BE USED DURING EXTENDED WINTER SHUTDOWN.
2. SEE SHEETS 22 AND 23 FOR BRIDGE STAGE CONSTRUCTION DETAILS.
3. TEMPORARY EDGE LINES SHALL BE PLACED WITH A ONE FOOT OFFSET FROM THE TEMPORARY PRECAST CONCRETE BARRIER CURB AND WITH A ONE FOOT OFFSET FROM THE EXISTING CURB, PROVIDING TRAVEL LANE WIDTH OF 12 FEET.
4. PLACEMENT OF ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE 2009 EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) OR AS DIRECTED BY THE ENGINEER FOR A DESIGN SPEED OF 25 MPH.
5. EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE TEMPORARY MARKINGS SHOWN ON THE PLANS SHALL BE REMOVED. PERMANENT MARKINGS SHALL BE REPLACED, AS NOTED, UPON COMPLETION OF CONSTRUCTION. SEE SHEET 5, SIGNING AND STRIPING PLAN.
6. EXISTING SIGNS THAT CONFLICT WITH THE CONSTRUCTION SIGNS SHOWN ON THE PLANS SHALL BE TEMPORARILY COVERED OR REMOVED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. ALL REMOVED SIGNS SHALL BE RE-INSTALLED UPON COMPLETION OF CONSTRUCTION.

STAGE 1 PLAN

7. SEE DETOUR PLAN (SHEET 25) FOR ADDITIONAL TEMPORARY TRAFFIC CONTROL MEASURES LOCATED OUTSIDE THE IMMEDIATE CONSTRUCTION ZONE.
8. SEE CTDOT STANDARD SHEET TR-1210_03: SPECIAL DETAILS AND PAVEMENT MARKINGS FOR TWO-WAY HIGHWAYS, FOR PAVEMENT ARROW, CROSSWALK AND OTHER APPLICABLE DETAILS. SEE 2009 EDITION OF THE MUTCD FOR ALL OTHER DETAILS.
9. PAVEMENT MARKING ARROWS AND WORDS ARE SHOWN SCHEMATICALLY, ACTUAL PLACEMENT SHALL BE AT THE DISCRETION OF THE ENGINEER.
10. CLOSE EXISTING LEFT TURN LANE ON SOUTH MAIN STREET WITH TYPE III CONSTRUCTION BARRICADES AND TRAFFIC DRUMS. BARRICADE AND DRUM PLACEMENT IS SCHEMATIC. ACTUAL PLACEMENT SHALL BE AT THE DISCRETION OF THE ENGINEER.
11. THE CONTRACTOR SHALL PROVIDE MEANS OF SECURING THE CONSTRUCTION ZONE FROM PEDESTRIAN ACCESS, PAYMENT INCIDENTAL TO THE "MAINTENANCE AND PROTECTION OF TRAFFIC" ITEM.
12. TEMPORARY PRECAST CONCRETE BARRIER CURB SHALL BE PAID SEPARATELY FOR BARRIER INSTALLED ON THE BRIDGE STRUCTURE (TEMPORARY PRECAST CONCRETE BARRIER CURB (STRUCTURE)) AND OFF THE BRIDGE STRUCTURE (TEMPORARY PRECAST CONCRETE BARRIER CURB).
13. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN PERMANENT AND TEMPORARY PAVEMENT TRANSITIONS FROM THE CONCLUSION OF STAGE 1 THROUGH THE INITIATION OF FINAL PAVING, AS SPECIFIED IN SPECIAL PROVISION 4.06 "BITUMINOUS CONCRETE" OR AS DIRECTED BY THE ENGINEER. PAYMENT FOR ALL WORK SHALL BE UNDER THE "HMA 50.375" ITEM.

LEGEND

- CONSTRUCTION BARRICADE (TYPE III)
- TEMPORARY PRECAST CONCRETE BARRIER CURB
- TEMPORARY IMPACT ATTENUATION SYSTEM - TYPE 'A' (TL-2)
- TRAFFIC DRUM
- TRAFFIC DIRECTION
- EXISTING SIGN
- PROPOSED SIGN
- REMOVE EXISTING PAVEMENT MARKINGS

4/16/24 PM 4:16:24 PM V:\CTDOT\Workspaces\16319\Maple St\Drawings\16319_mpt_sht_01.dgn

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

Plot Date: 5/11/2012

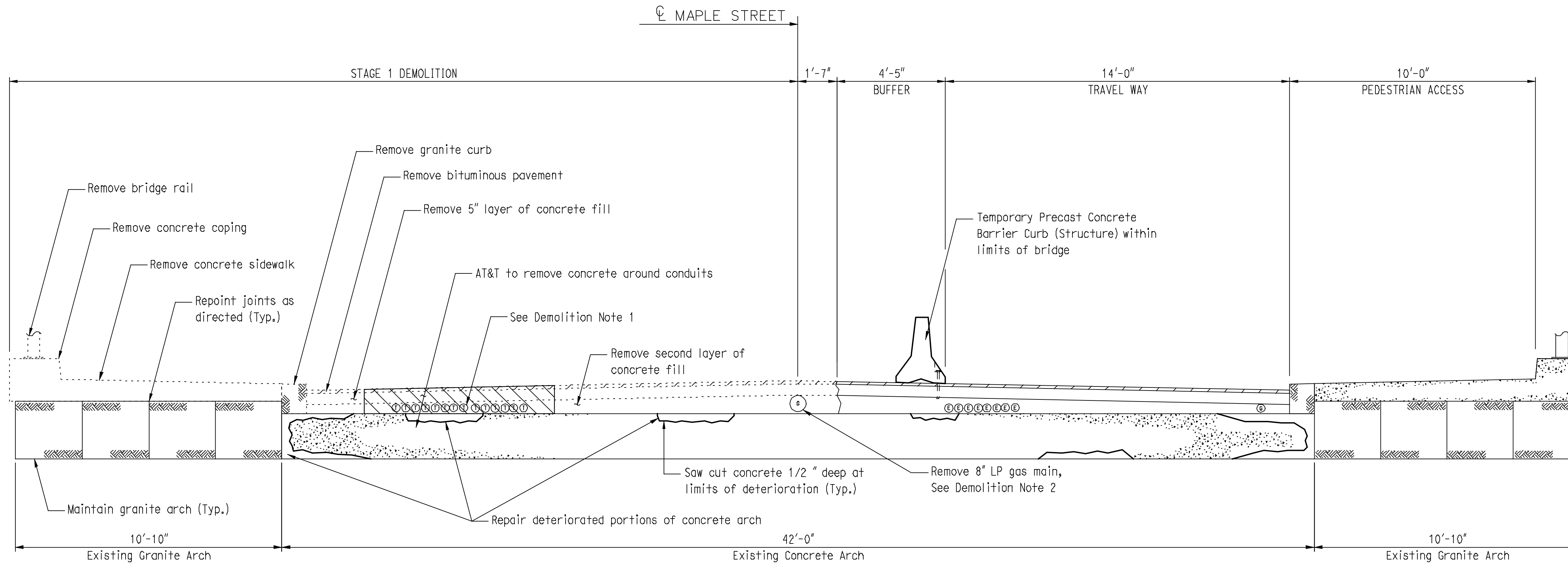
DESIGNER/DRAFTER: **CRH**
 CHECKED BY: **RJF**
 SCALE IN FEET
 SCALE 1"=20'

BOROUGH OF NAUGATUCK
 DEPARTMENT OF PUBLIC WORKS

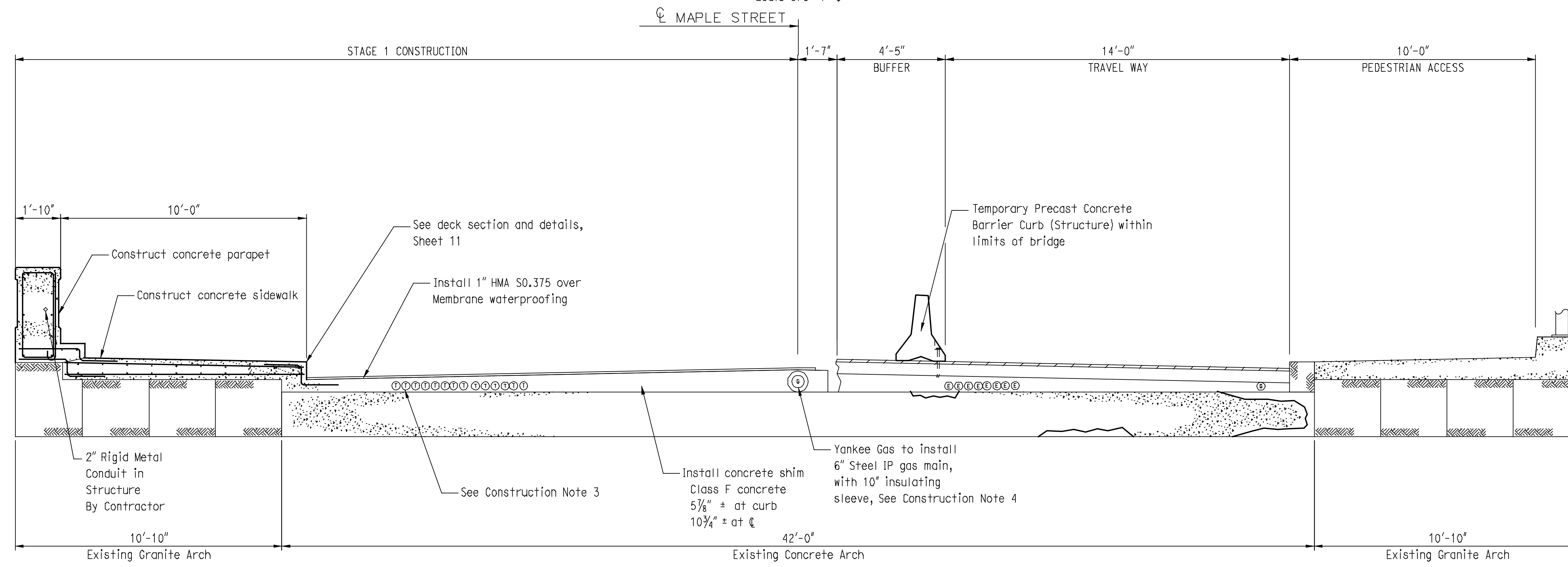
CIA
 CLOUGH HARBOUR & ASSOCIATES LLP
 2150 Blue Cove Highway, Suite 212, Rocky Hill, CT 06067-2008
 Main: (860) 437-4507 • www.chiafirm.com

PROJECT TITLE:
MAPLE STREET OVER NAUGATUCK RIVER

TOWN: **NAUGATUCK**
 PROJECT NO.: **9087-4214**
 DRAWING NO.:
 DRAWING TITLE: **STAGE 1 PLAN**
 SHEET NO.: **20** of **25**



STAGES 1A THRU 1C DEMOLITION
Scale 3/8"=1'-0"



STAGES 1A THRU 1C CONSTRUCTION
Scale 3/8"=1'-0"

STAGE 1 DEMOLITION NOTES:

1. THE CONTRACTOR SHALL ESTABLISH THE LOCATION OF TELEPHONE CONDUITS PRIOR TO ANY EXCAVATION ACTIVITIES IN THE AREA. THE CONTRACTOR SHALL STOP EXCAVATION WITHIN 1 FOOT OF TELEPHONE CONDUITS AND CONTACT AT&T. THE CONTRACTOR SHALL FURNISH A PROTECTED AREA WITHIN THE CONSTRUCTION ZONE TO PLACE THE TELEPHONE CONDUITS. THE CONDUITS SHALL BE PROTECTED UNTIL THE CONDUIT IS TO BE POSITIONED WITHIN THE CONCRETE FILL. SEE STAGE 1 CONSTRUCTION NOTES FOR DETAILS. AT&T OR SUBCONTRACTOR WILL BREAK OUT THE CONDUITS AND MOVE THE CONDUITS INTO THE PROTECTED AREA. THE CONTRACTOR SHALL MAINTAIN AND PROTECT TELEPHONE CONDUIT SERVICE THROUGH THE WORK ZONE. AT&T RESERVES THE RIGHT TO REVIEW THE METHOD BEING USED IN SUPPORTING THE STRUCTURE. THE STRUCTURE IS TO BE DESIGNED BY A STATE OF CONNECTICUT REGISTERED PROFESSIONAL ENGINEER. THIS WORK SHALL BE PAID UNDER THE "TEMPORARY SUPPORT FOR EXISTING TELEPHONE DUCTS" ITEM. AT&T CONTACT: TOM DELORENZO - (203) 238-5202.
2. YANKEE GAS, OR SUBCONTRACTOR OF THEIR PROVISION, SHALL PERFORM ALL WORK ASSOCIATED WITH THE ABANDONMENT OF THE EXISTING 8" LOW PRESSURE (LP) GAS MAIN. CONTRACTOR SHALL REMOVE THE ABANDONED GAS MAIN INCIDENTAL TO "REMOVAL OF EXISTING MASONRY" ITEM. YANKEE GAS CONTACT: ROB PANTALONE - (203) 596-3020.
3. REMOVAL OF BRIDGE RAILING TO BE PAID BY THE "REMOVAL OF EXISTING METAL BRIDGE RAIL" ITEM.
4. REMOVAL OF BITUMINOUS BRIDGE PAVEMENT, CONCRETE COPING, CONCRETE SIDEWALK, AND CONCRETE FILL SHALL BE PAID BY THE "REMOVAL OF EXISTING MASONRY" ITEM.
5. CONCRETE AND CONDUITS REMOVED BY AT&T OR YANKEE GAS WILL NOT BE PAID FOR.
6. SEE DECK SECTION, SHEET 11, AND ARCH REPAIR DETAIL, SHEET 17, FOR FURTHER DETAILS.
7. CONTRACTOR SHALL REMOVE AND SALVAGE EXISTING LIGHT STANDARDS AND ALL ASSOCIATED ELECTRICAL HARDWARE. UPON REMOVAL, CONTACT THE BOROUGH OF NAUGATUCK TO ARRANGE DELIVERY. ALL WORK ASSOCIATED WITH REMOVAL THROUGH DELIVERY SHALL BE PAID UNDER THE ITEM "REMOVE LIGHT STANDARD". SEE SPECIAL PROVISIONS FOR FURTHER DETAILS.

STAGE 1 CONSTRUCTION NOTES:

1. THE MEMBRANE WATERPROOFING AND HMA S0.375 SHALL BE INSTALLED AT THE END OF STAGE 1. THE FINAL WEARING SURFACE OF DRAINAGE BLANKET, BEDDING SAND, AND CEMENT PAVERS SHALL BE PLACED USING TEMPORARY LANE CLOSURES AND SHIFTS AFTER CONCRETE SHIM IS COMPLETE IN STAGE 2.
2. CONCRETE PARAPET, CONCRETE SIDEWALK, AND CONCRETE SHIM SHALL BE PAID BY THE "CLASS F CONCRETE" ITEM.
3. AT&T SHALL POSITION AND SECURE TELECOMMUNICATION CONDUITS PRIOR TO THE INSTALLATION OF THE CONCRETE SHIM. THE CONTRACTOR SHALL COORDINATE THE SETTING OF THE CONDUITS IN THE STRUCTURE PRIOR TO POURING CONCRETE. THIS WORK SHALL BE INCLUDED IN THE "TEMPORARY SUPPORT FOR EXISTING TELEPHONE DUCTS" ITEM.
4. YANKEE GAS SHALL POSITION AND SECURE 6" STEEL INTERMEDIATE PRESSURE (I. P.) GAS MAIN PRIOR TO THE INSTALLATION OF THE CONCRETE SHIM. THE CONTRACTOR SHALL COORDINATE THE SETTING OF THE GAS MAIN PRIOR TO POURING CONCRETE. THIS WORK SHALL BE INCIDENTAL TO THE "CLASS F CONCRETE" ITEM.
5. SEE DECK SECTION AND DETAILS, SHEET 11, AND ARCH REPAIR DETAIL, SHEET 17, FOR FURTHER DETAILS.
6. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN PERMANENT AND TEMPORARY PAVEMENT TRANSITIONS FROM THE CONCLUSION OF STAGE 1 THROUGH THE INITIATION OF FINAL PAVING, AS SPECIFIED IN SPECIAL PROVISION 4.06, OR AS DIRECTED BY THE ENGINEER. PAYMENT FOR ALL WORK SHALL BE UNDER THE "HMA S0.375" ITEM.
7. THE CONTRACTOR SHALL INSTALL 2" RIGID METAL CONDUIT IN STRUCTURE AS SHOWN ON UTILITY PLAN, SHEET 6, AND DECK SECTION AND DETAILS, SHEET 11, AND IN CONFORMANCE WITH THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL SET CONDUIT IN STRUCTURE PRIOR TO POURING CONCRETE. EXPANSION FITTINGS SHALL BE INSTALLED AT ALL EXPANSION JOINTS. THIS WORK SHALL BE INCIDENTAL TO THE "2" RIGID METAL CONDUIT" ITEM.

4/16/24 PM 4:46:34 PM I:\Projects\16319\Maple Street\16319.mpt\sections.dgn

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

DESIGNER/DRAWER: **CRH**
CHECKED BY: **RJF**
SCALE AS NOTED

BOROUGH OF NAUGATUCK
DEPARTMENT OF PUBLIC WORKS

CIA
CLOUGH HARBOUR & ASSOCIATES LLP
2120 State Street Highway, Suite 212, Rocky Hill, CT 06067-2220
Phone: (860) 437-4527

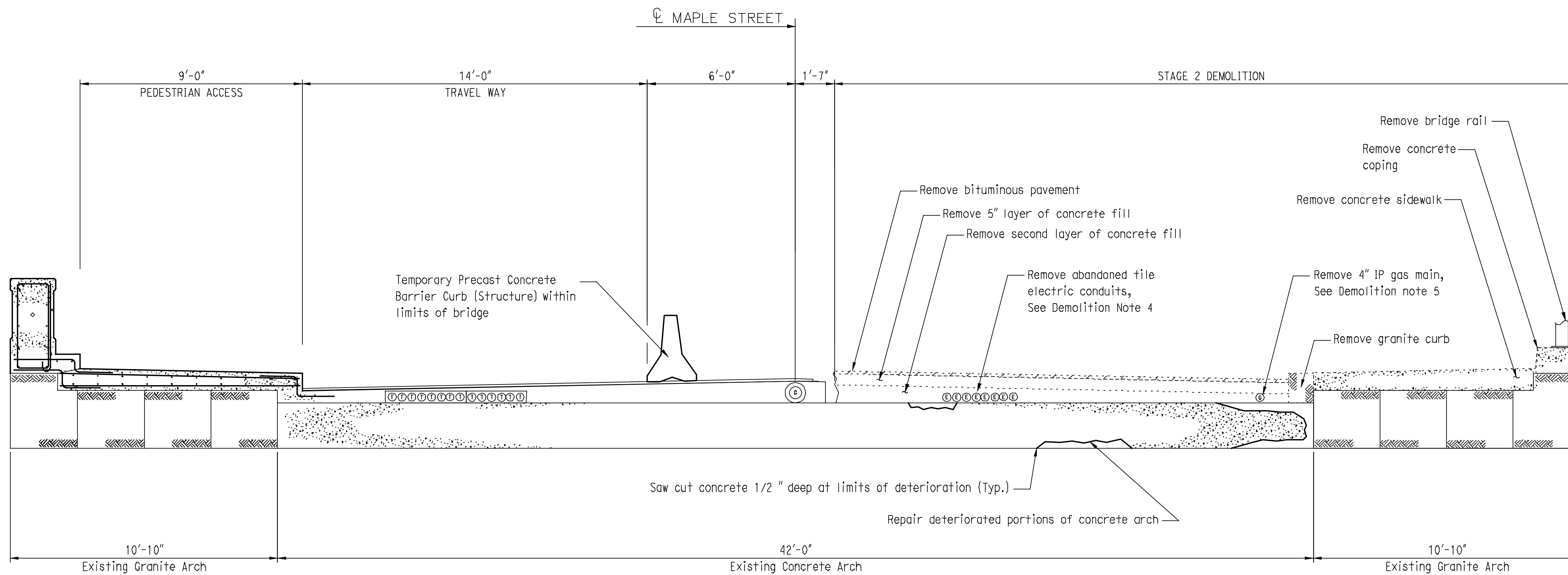
PROJECT TITLE:
MAPLE STREET OVER NAUGATUCK RIVER

TOWN: **NAUGATUCK**
PROJECT NO.: **9087-4214**
DRAWING TITLE: **STAGE 1 CROSS SECTIONS**
SHEET NO.: **22 of 25**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

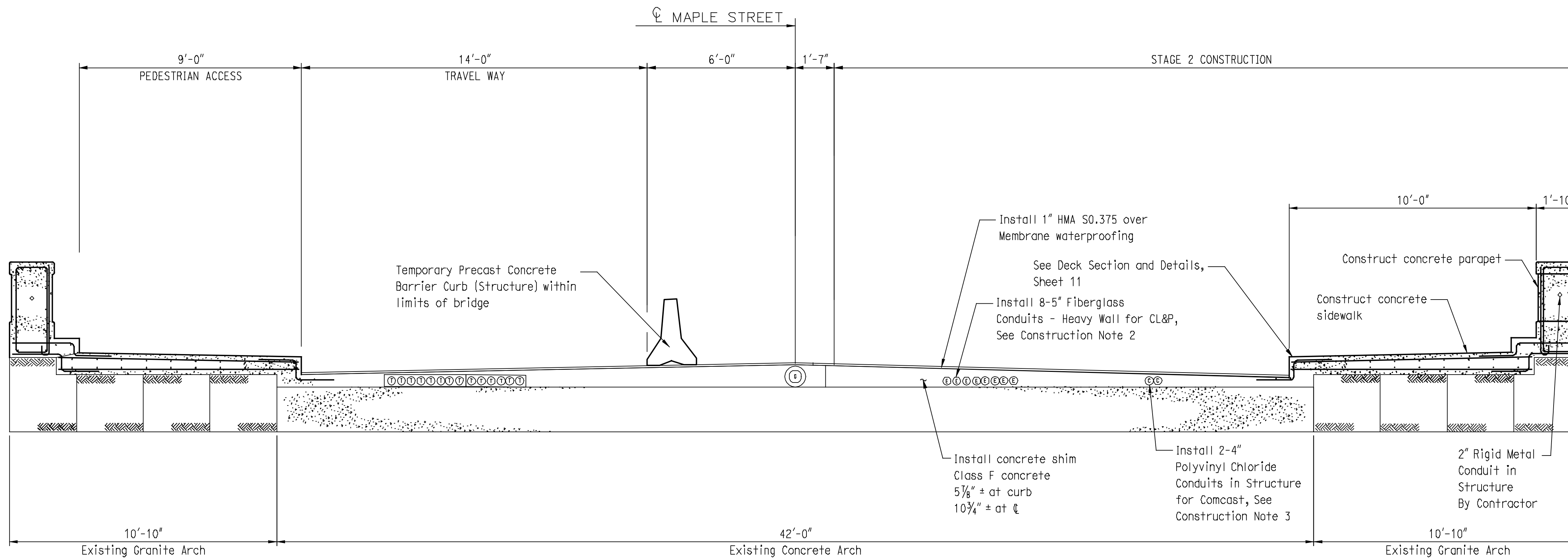
Plotted Date: 5/11/2012

Filename: I:\16319\maple street\16319.mpt\sections.dgn



STAGES 2A THRU 2C DEMOLITION

Scale 3/8"=1'-0"



STAGES 2A THRU 2C CONSTRUCTION

Scale 3/8"=1'-0"

STAGE 2 DEMOLITION NOTES:

1. REMOVAL OF BRIDGE RAILING TO BE PAID BY THE "REMOVAL OF EXISTING METAL BRIDGE RAIL" ITEM.
2. REMOVAL OF BITUMINOUS BRIDGE PAVEMENT, CONCRETE COPING, CONCRETE SIDEWALK, AND CONCRETE FILL SHALL BE PAID BY THE "REMOVAL OF EXISTING MASONRY" ITEM.
3. CONCRETE AND CONDUITS REMOVED BY UTILITIES WILL NOT BE PAID FOR.
4. CL&P TO ABANDON CONDUIT DUCT PRIOR TO STAGE 2 DEMOLITION. SEE UTILITY PLAN (SHEET 6) FOR FURTHER DETAILS. CONTACT CL&P FOR CONFIRMATION PRIOR TO EXCAVATION IN THIS AREA. REMOVAL OF ABANDONED ELECTRIC CONDUITS AND COORDINATION WITH CL&P SHALL BE INCIDENTAL TO THE "REMOVAL OF EXISTING MASONRY" ITEM.
5. YANKEE GAS, OR SUBCONTRACTOR OF THEIR PROVISION, SHALL PERFORM ALL WORK ASSOCIATED WITH THE ABANDONMENT OF THE EXISTING 4" INTERMEDIATE PRESSURE (I.P.) GAS MAIN. CONTRACTOR SHALL REMOVE THE ABANDONED GAS MAIN INCIDENTAL TO THE "REMOVAL OF EXISTING MASONRY" ITEM.
6. SEE DECK SECTION AND DETAILS, SHEET 11, AND ARCH REPAIR DETAIL, SHEET 17, FOR FURTHER DETAILS.
7. CONTRACTOR SHALL REMOVE AND SALVAGE EXISTING LIGHT STANDARDS AND ALL ASSOCIATED ELECTRICAL HARDWARE. UPON REMOVAL, CONTACT THE BOROUGH OF NAUGATUCK TO ARRANGE DELIVERY. ALL WORK ASSOCIATED WITH REMOVAL THROUGH DELIVERY SHALL BE PAID UNDER THE "REMOVE LIGHT STANDARD" ITEM. SEE SPECIAL PROVISIONS FOR FURTHER DETAILS.

STAGE 2 CONSTRUCTION NOTES:

1. THE FINAL WEARING SURFACE OF DRAINAGE BLANKET, BEDDING SAND, AND CEMENT PAVERS SHALL BE PLACED USING TEMPORARY LANE CLOSURES AND SHIFTS AFTER CONCRETE SHIM IS COMPLETE.
2. 5" FIBERGLASS CONDUIT - HEAVY WALL SHALL BE CONFORM TO THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL SET CONDUITS IN STRUCTURE PRIOR TO POURING CONCRETE. EXPANSION FITTINGS SHALL BE INSTALLED AT ALL EXPANSION JOINTS. THIS WORK SHALL BE INCIDENTAL TO THE "5" FIBERGLASS CONDUIT - HEAVY WALL" ITEM. MECHANICAL SPACERS SHALL BE INSTALLED EVERY 8 LONGITUDINAL FEET (ON CENTER). MECHANICAL SPACERS AND WORK ASSOCIATED WITH SECURING THE CONDUITS SHALL BE INCLUDED IN THE "5" FIBERGLASS CONDUIT - HEAVY WALL" ITEM. THIS WORK SHALL CONFORM TO THE SPECIAL PROVISIONS. ALL FITTINGS AND JOINTS SHALL BE APPROVED, BY THE MANUFACTURER, FOR USE WITH THE TYPE OF CONDUIT.
3. 4" POLYVINYL CHLORIDE CONDUIT IN STRUCTURE SHALL CONFORM TO THE SPECIAL PROVISIONS. CONTRACTOR SHALL SET CONDUITS IN STRUCTURE PRIOR TO POURING CONCRETE. EXPANSION FITTINGS SHALL BE INSTALLED AT ALL EXPANSION JOINTS. THIS WORK SHALL BE INCLUDED IN THE "4" POLYVINYL CHLORIDE CONDUIT IN STRUCTURE" ITEM. MECHANICAL SPACERS SHALL BE INSTALLED EVERY 8 LONGITUDINAL FEET (ON CENTER). MECHANICAL SPACERS AND WORK ASSOCIATED WITH SECURING THE CONDUITS SHALL BE INCLUDED IN THE "4" POLYVINYL CHLORIDE CONDUIT IN STRUCTURE" ITEM. ALL FITTINGS AND JOINTS SHALL BE APPROVED, BY THE MANUFACTURER, FOR USE WITH THE TYPE OF CONDUIT.
4. THE CONTRACTOR SHALL INSTALL 2" RIGID METAL CONDUIT IN STRUCTURE AS SHOWN ON UTILITY PLAN, SHEET 6, AND DECK SECTION AND DETAILS, SHEET 11, AND SHALL CONFORM TO THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL SET CONDUIT IN STRUCTURE PRIOR TO POURING CONCRETE. EXPANSION FITTINGS SHALL BE INSTALLED AT ALL EXPANSION JOINTS. THIS WORK SHALL BE INCLUDED TO THE "2" RIGID METAL CONDUIT". ALL FITTINGS AND JOINTS SHALL BE APPROVED, BY THE MANUFACTURER, FOR USE WITH THE TYPE OF CONDUIT.
5. SEE DECK SECTION AND DETAILS, SHEET 11, AND ARCH REPAIR DETAIL, SHEET 17, FOR FURTHER DETAILS.

4:46:40 PM 5/11/2012 I:\B19\maple street\cad\highway\16319_mpt_sections.dgn

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE, AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

DESIGNER/DRAWER: CRH
 CHECKED BY: RJF
 SCALE AS NOTED

BOROUGH OF NAUGATUCK
 DEPARTMENT OF PUBLIC WORKS

CIA
 CLOUGH HARBOUR & ASSOCIATES LLP
 2130 Glen Cove Highway, Suite 212, Rocky Hill, CT 06067-2230
 Phone: (860) 451-4527 • www.cia-naug.com

PROJECT TITLE:
MAPLE STREET OVER NAUGATUCK RIVER

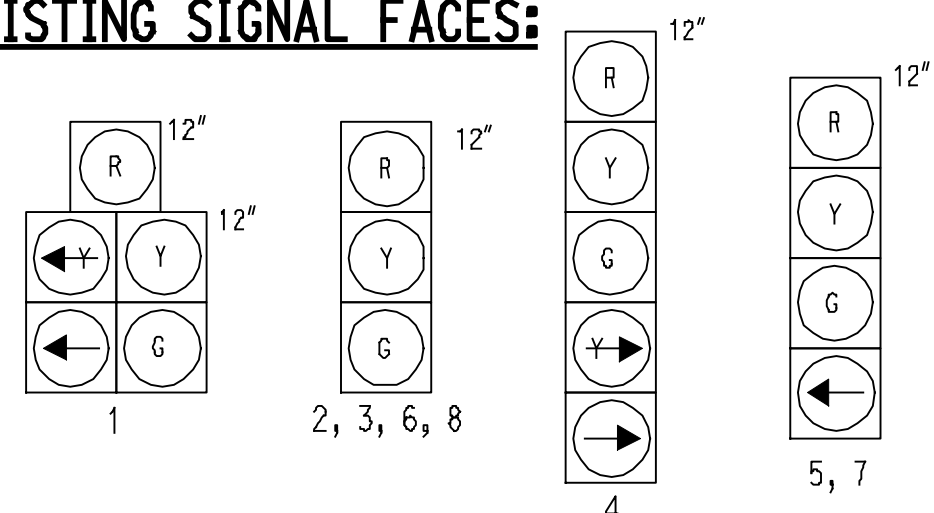
TOWN: **NAUGATUCK**
 PROJECT NO.: **9087-4214**
 DRAWING TITLE: **STAGE 2 CROSS SECTIONS**
 SHEET NO.: **23 of 25**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

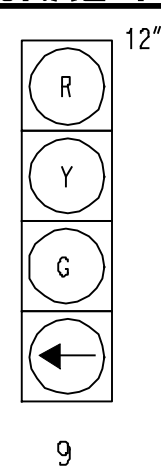
Plotted Date: 5/11/2012

Filename: I:\16319 maple street\cad\highway\16319_mpt_sections.dgn

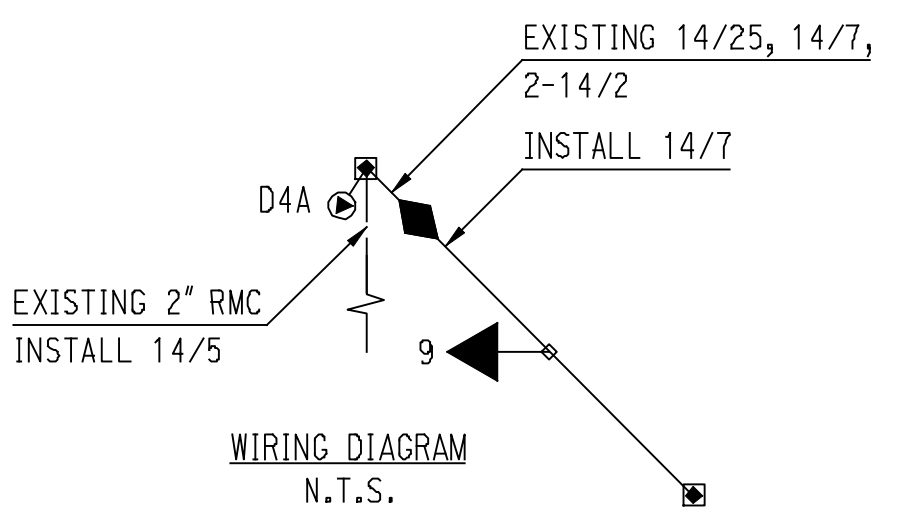
EXISTING SIGNAL FACES:



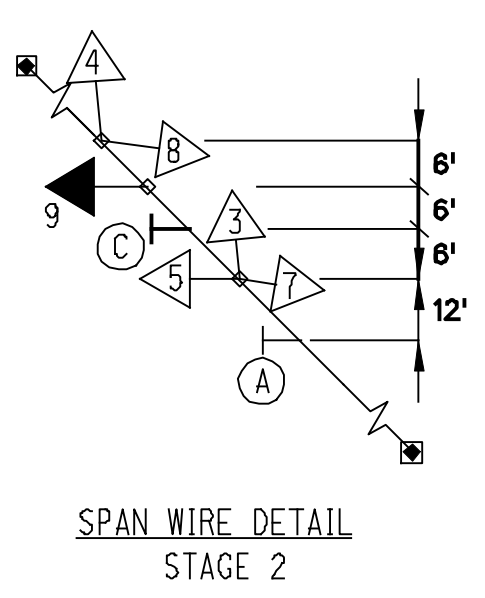
TEMPORARY SIGNAL FACE: TEMPORARY SIGNAL NOTES:



- THIS SIGNAL PLAN IS TO BE USED ONLY AS A GUIDE. THE SPECIFIC EQUIPMENT USED AND ITS EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE DISTRICT TRAFFIC ENGINEER.
- PAYMENT FOR ALL WORK AND EQUIPMENT SHALL BE MADE UNDER TEMPORARY SIGNALIZATION (SITE 1).
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE TRAFFIC SIGNAL EQUIPMENT AND OPERATIONS FOR THE DURATION OF CONSTRUCTION.
- TRAFFIC SIGNAL TIMING AND PHASING ADJUSTMENTS SHALL BE MADE AT THE CONTROLLER CONSISTENT WITH THIS PLAN. THE EXISTING TIMINGS AND PHASINGS SHALL BE RESTORED ONCE EXISTING TRAFFIC PATTERNS ARE RESTORED.
- THE CONTRACTOR SHALL ADJUST TIMINGS AT NEARBY DETOUR ROUTE SIGNALS AS NECESSARY DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER.
- ALL EXISTING TRAFFIC SIGNAL EQUIPMENT AND OPERATIONS SHALL BE RESTORED TO THEIR CURRENT CONDITION ONCE CONSTRUCTION AND EXISTING TRAFFIC PATTERNS ARE RESTORED.
- SEE STAGE 1 AND STAGE 2 PLANS, SHEETS 20 AND 21 FOR MAINTENANCE AND PROTECTION OF TRAFFIC DETAILS, INCLUDING TEMPORARY PAVEMENT MARKINGS.
- SPAN MOUNTED SIGNS A (2 LOCATIONS) AND B (1 LOCATION) SHALL BE BAGGED AND REMAIN BAGGED FOR THE DURATION OF STAGED CONSTRUCTION.
- PRESENCE DETECTOR D1 SHALL BE DISABLED AND REMAIN DISABLED FOR THE DURATION OF STAGED CONSTRUCTION.
- THE ARROW INDICATIONS ON SIGNAL FACES 1 AND 4 SHALL BE DISABLED AND REMAIN DISABLED FOR THE DURATION OF STAGED CONSTRUCTION.
- REMOVE ALL CONFLICTING PAVEMENT MARKINGS, SEE STAGE 1 AND STAGE 2 PLANS, SHEETS 20 AND 21, FOR MAINTENANCE AND PROTECTION OF TRAFFIC DETAILS. ALL REMOVED MARKINGS SHALL BE RE-INSTALLED UPON COMPLETION OF CONSTRUCTION.
- THE DETECTION AREA FOR MICROWAVE DETECTOR D4 SHALL BE ADJUSTED TO DETECT THE MODIFIED APPROACH FOR STAGE 1.
- ANY EXISTING SIGNS THAT CONFLICT WITH THE CONSTRUCTION/DETOUR SIGNS SHALL BE TEMPORARILY COVERED OR REMOVED DURING CONSTRUCTION, AS NOTED, OR AS DIRECTED BY THE ENGINEER. ALL REMOVED SIGNS SHALL BE RE-INSTALLED UPON COMPLETION OF CONSTRUCTION.
- ALL WORK SHALL CONFORM TO SECTION 10 AND 11 OF THE STANDARD SPECIFICATIONS AND ALL APPLICABLE CT STANDARD DRAWINGS.



NOTE: ALL EXISTING WIRING TO REMAIN.
 ABBREVIATIONS:
 14/5 - 5 CONDUCTOR CABLE, 14 AWG
 14/7 - 7 CONDUCTOR CABLE, 14 AWG



DETECTORS			
IDEN	TYPE	MODE	NOTES
D1	LOOP	PRESENCE	EXISTING - DISABLE DURING STAGED CONSTRUCTION
D2	LOOP	PRESENCE	EXISTING - TO REMAIN (NOT SHOWN ON PLAN)
D2A	LOOP	PRESENCE	EXISTING - TO REMAIN (NOT SHOWN ON PLAN)
D4	MICROWAVE	PRESENCE	EXISTING - DISABLE DURING STAGE 2 OF CONSTRUCTION
D5	LOOP	PRESENCE	EXISTING - TO REMAIN
D5A	LOOP	PRESENCE	EXISTING - TO REMAIN
D4A	MICROWAVE	PRESENCE	TEMPORARY - USED DURING STAGE 2 OF CONSTRUCTION

TEMPORARY PHASING & TIMING PLAN														
NTOR	FLASH	PHASE 2				PHASE 3			PHASE 4			PHASE 5		
		GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	
F	1	R	G	Y	R	R	R	R	R	R	R	R	R	
A	2	R	G	Y	R	R	R	R	R	R	R	R	R	
C	3	R	G	Y	R	R	R	R	R	R	R	R	R	
E	4	R	G	Y	R	R	R	R	R	R	R	R	R	
#	5	R	R	R	R	R	R	R	R	R	R	R	R	
	6 (STAGE 1)	R	R	R	R	R	R	R	R	R	R	R	R	
	7	R	R	R	R	R	R	R	R	R	R	R	R	
	8	R	R	R	R	R	R	R	R	R	R	R	R	
	9 (STAGE 2)	R	R	R	R	R	R	R	R	R	R	R	R	
	P	OFF	DW	DW	W0			DW						
INTERVALS	MIN GRN	15			7			9			6			
	WALK				14									
	PED CLR													
	VEH EXT	3.5						1.5			1.5			
	MAX 1	19						21			16			
	MAX 2	27						42			17			
	YELLOW		3			0.1			3			3		
	RED				2		0			1			1	
	ADD INIT													
	MAX INIT													
TBR														
TTR														
MIN GAP														
MODE		MIN RECALL			NON-LOCK			LOCK			NON-LOCK			
INI START		THIS PHASE												

NOTE: MAX 2 SHALL APPLY FROM 1530-1830 M-F. MAX 1 SHALL APPLY AT ALL OTHER TIMES

TEMPORARY SIGNAL PLAN LEGEND

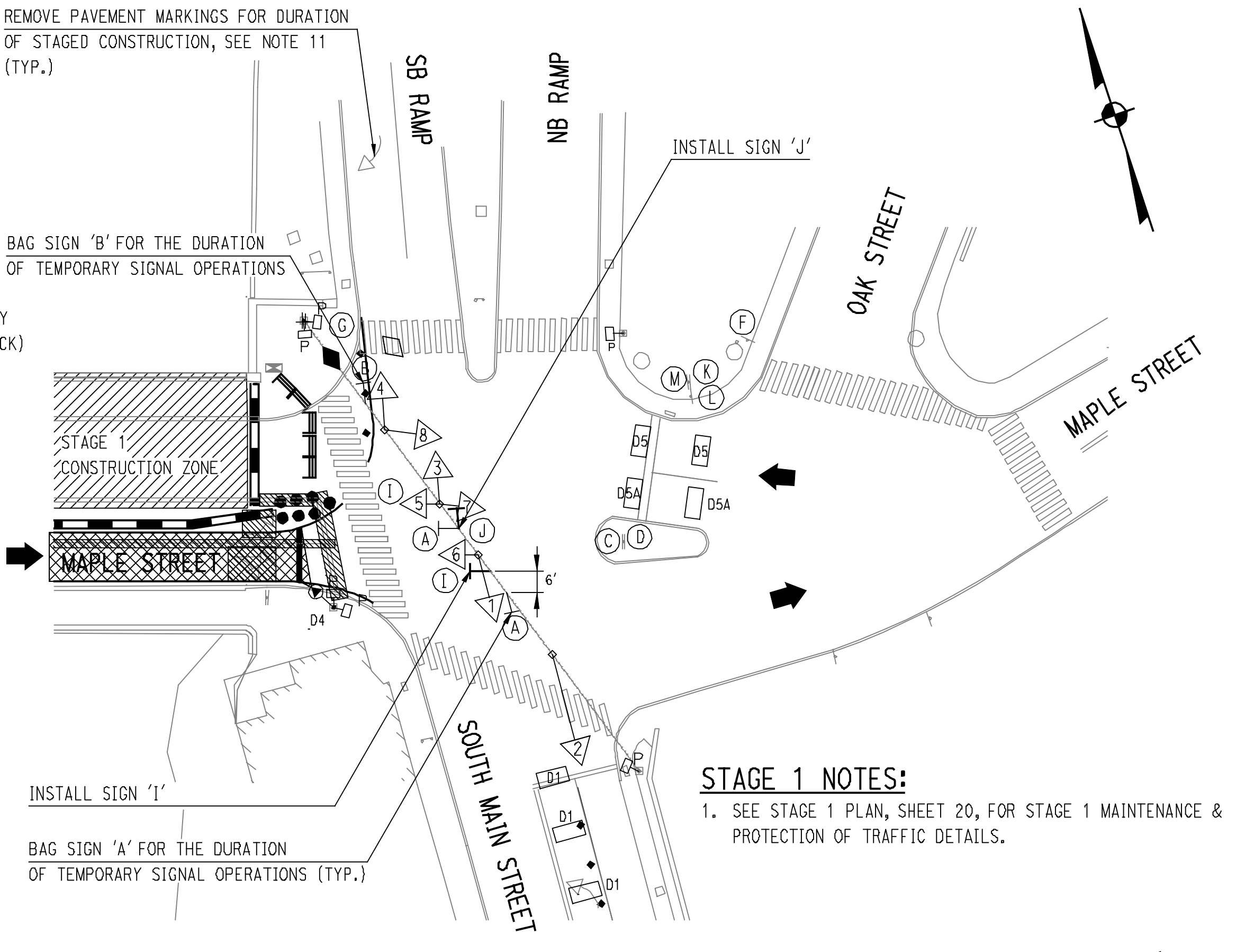
- EXISTING TRAFFIC SIGNAL FACE
- PROPOSED TEMPORARY TRAFFIC SIGNAL FACE
- EXISTING LOOP DETECTOR
- PROPOSED TEMPORARY SPAN MOUNTED SIGN
- EXISTING SPAN MOUNTED SIGN
- EXISTING STEEL SPAN POLE
- EXISTING PEDESTRIAN SIGNAL FACE
- EXISTING CONTROLLER
- MICROWAVE DETECTOR
- EXISTING CABLE CLOSURE
- CONSTRUCTION ZONE
- EXISTING PAVEMENT MARKINGS - TO BE REMOVED
- MICROWAVE DETECTION ZONE
- EXISTING CONDUIT

SIGN LEGEND:

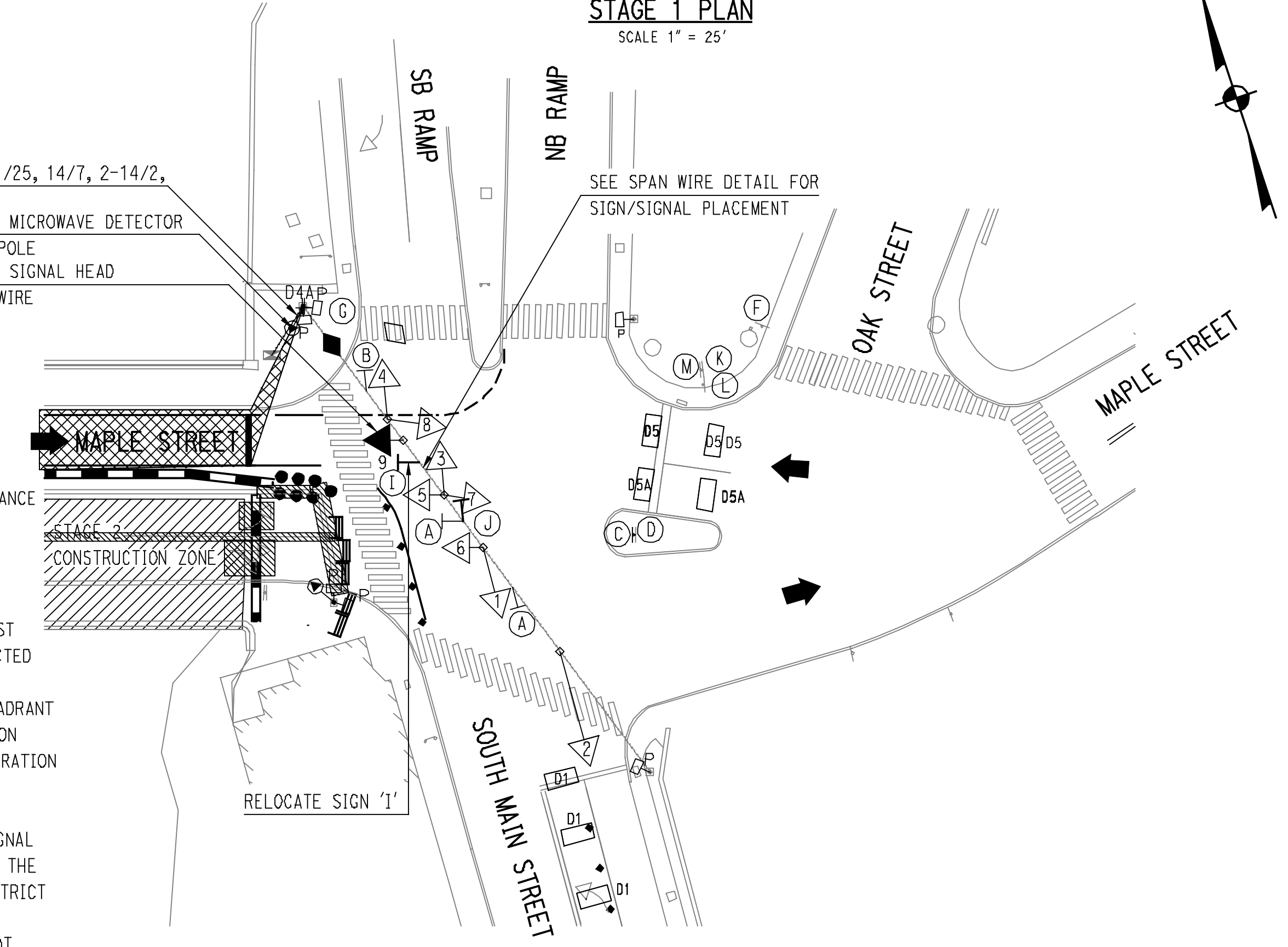
- (A) BAG FOR DURATION OF CONSTRUCTION (2 LOCATIONS) MANDATORY LEFT TURN R3-5
- (B) BAG FOR DURATION OF CONSTRUCTION MANDATORY RIGHT TURN R3-5
- (C) EXISTING - MAINTAIN KEEP RIGHT R4-7
- (D) EXISTING - MAINTAIN KEEP RIGHT R4-7
- (E) EXISTING - MAINTAIN (NOT SHOWN) SIGNAL AHEAD/WRONG WAY W3-3/R5-1 (BACK TO BACK)
- (F) EXISTING - MAINTAIN YIELD R1-2
- (G) EXISTING - MAINTAIN WRONG WAY/ONE-WAY (2) R5-1/R6-1 (2)
- (H) EXISTING - MAINTAIN (NOT SHOWN) WRONG WAY (2) R5-1 (2)
- (I) INSTALL PRIOR TO STAGE ONE, SEE STAGE 2, NOTE 3 NO TURN ON RED R10-11A
- (J) INSTALL AND MAINTAIN MANDATORY LEFT TURN FOR DURATION OF STAGED CONSTRUCTION R3-5
- (K) EXISTING - MAINTAIN RT. 8 GUIDE ASSEMBLY D1-1, M3-1, M1-5, M6-1
- (L) EXISTING - MAINTAIN RT. 8 RAMP VERTICAL CLEARANCE W12-2
- (M) EXISTING - MAINTAIN RT. 8 GUIDE ASSEMBLY M3-1, M1-5, M6-1

STAGE 2 NOTES:

- THE CONTRACTOR SHALL BAG AND DISCONNECT SIGNAL FACE 6 AND PLACE TEMPORARY SIGNAL FACE 9 INTO OPERATION. THE ARROW INDICATION ON SIGNAL FACE 5 SHALL BE DISABLED.
- SEE STAGE 2 PLAN, SHEET 21, FOR STAGE 2 MAINTENANCE & PROTECTION OF TRAFFIC DETAILS.
- RELOCATE SIGN 1 FROM STAGE 1 TO STAGE 2.
- THE EXISTING MICROWAVE DETECTOR, IN THE SOUTHWEST QUADRANT OF THE INTERSECTION SHALL BE DISCONNECTED DURING STAGE 2. A TEMPORARY DETECTOR SHALL BE INSTALLED ON THE SPAN POLE IN THE NORTHWEST QUADRANT OF THE INTERSECTION AND WILL PROVIDE DETECTION ON THE EASTBOUND MAPLE STREET APPROACH FOR THE DURATION OF STAGE 2.
- FOLLOWING COMPLETION OF STAGE 2, THE TRAFFIC SIGNAL SHALL BE RESTORED TO ITS ORIGINAL CONDITION AND THE CONTRACTOR SHALL CONTACT CTDOT MAINTENANCE, DISTRICT 4 OFFICE (PHONE (860) 585-2710) TO SCHEDULE AN INSPECTION FOR THE RETURN OF THE SIGNAL TO CTDOT.



STAGE 1 PLAN
SCALE 1" = 25'



STAGE 2 PLAN
SCALE 1" = 25'

4/16/17 PM 3:11:51 PM 5/11/2017

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 5/11/2017

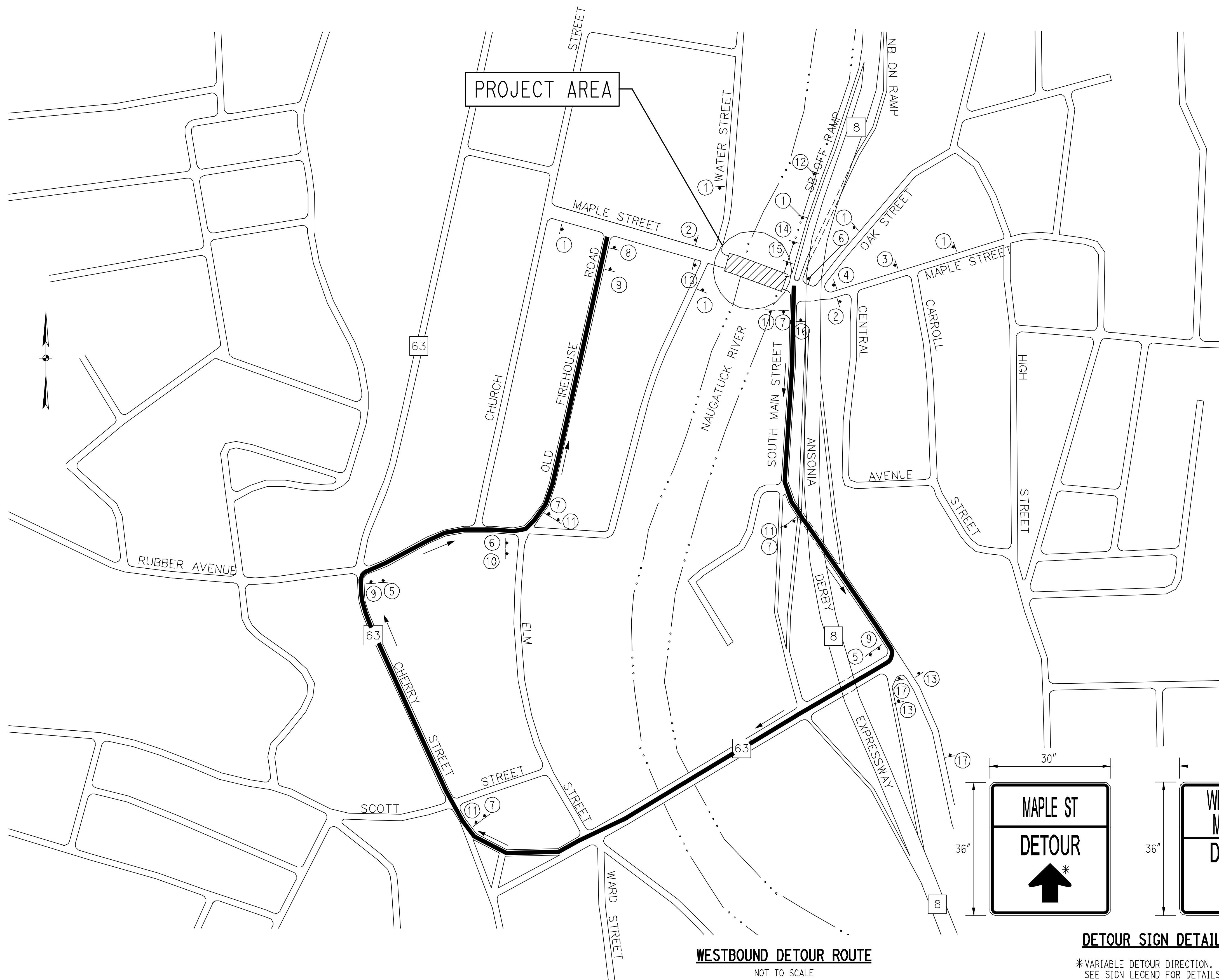
DESIGNER/DRAFTER: **CRH**
 CHECKED BY: **RJF**
 SCALE AS NOTED

BOROUGH OF NAUGATUCK
 DEPARTMENT OF PUBLIC WORKS

CIA
 CLOUGH HARBOUR & ASSOCIATES LLP
 2150 Blue Cove Highway, Suite 212, Rocky Hill, CT 06109-2008
 (860) 405-4007

PROJECT TITLE:
MAPLE STREET OVER NAUGATUCK RIVER

TOWN: **NAUGATUCK**
 PROJECT NO.: **9087-4214**
 DRAWING TITLE: **TEMPORARY SIGNAL PLAN**
 SHEET NO.: **24** of **25**

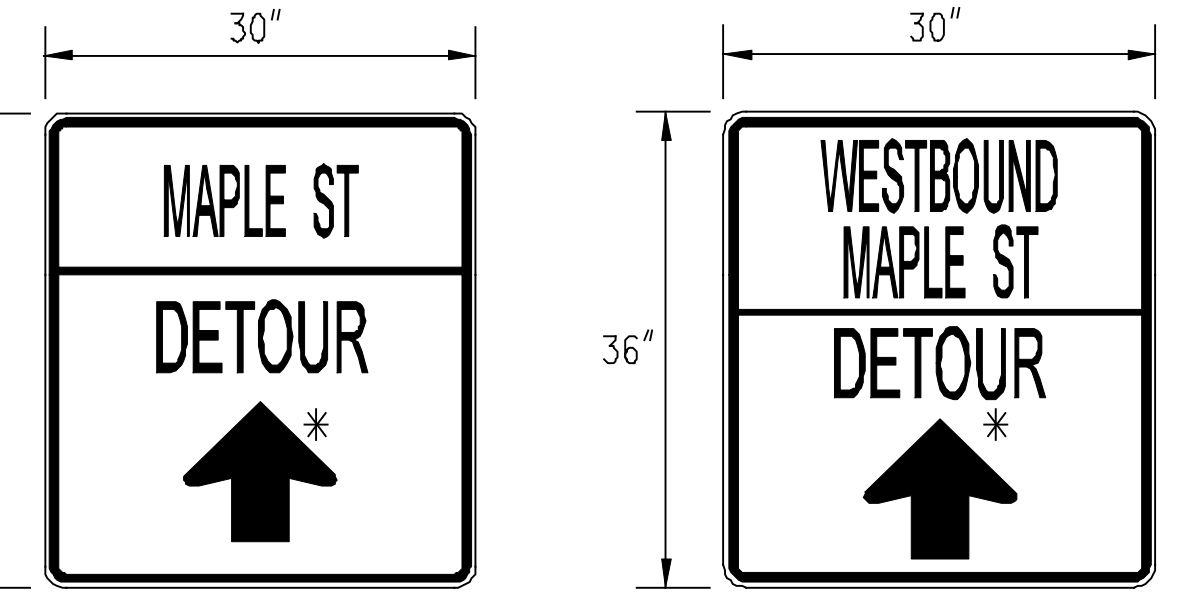


DETOUR NOTES:

1. SIGN TEXT AND LEGEND AND PLACEMENT OF ALL TEMPORARY TRAFFIC CONTROL AND DETOUR SIGNS SHALL BE IN ACCORDANCE WITH THE 2009 EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) OR AS DIRECTED BY THE ENGINEER.
2. SEE STAGE 1 AND STAGE 2 PLANS, SHEETS 20 AND 21, FOR PLACEMENT OF ADDITIONAL TEMPORARY TRAFFIC CONTROL MEASURES IN IMMEDIATE WORK ZONE.
3. ANY EXISTING SIGNS THAT CONFLICT WITH THE CONSTRUCTION/DETOUR SIGNS SHOWN ON THE PLANS SHALL BE TEMPORARILY COVERED OR REMOVED DURING CONSTRUCTION AS NOTED, OR AS DIRECTED BY THE ENGINEER. ALL REMOVED SIGNS SHALL BE RE-INSTALLED UPON COMPLETION OF CONSTRUCTION.
4. SIGN LOCATIONS SHOULD BE MODIFIED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. CONTRACTOR SHALL UTILIZE EXISTING SIGN POSTS AND UTILITY POLES WHERE NECESSARY.

SIGN LEGEND:

- 1 ROAD WORK AHEAD
W20-1 (36" X 36")
- 2 END ROAD WORK
G20-2 (36" X 18")
- 3 ROAD CLOSED AHEAD
W20-3 (36" X 36")
- 4 DETOUR AHEAD
W20-2 (36" X 36")
- 5 MAPLE ST/DETOUR/RIGHT ARROW
(SEE SIGN DETAILS)
- 6 MAPLE ST/DETOUR/LEFT ARROW
(SEE SIGN DETAILS)
- 7 MAPLE ST/DETOUR/AHEAD ARROW
(SEE SIGN DETAILS)
- 8 END DETOUR
M4-8A (24" X 18")
- 9 TRAIN STATION (SYM.)/RIGHT ARROW
I-7 (24" X 24"), M6-1 (12" X 9")
- 10 TRAIN STATION (SYM.)/LEFT ARROW
I-7 (24" X 24"), M6-1 (12" X 9")
- 11 TRAIN STATION (SYM.)/AHEAD ARROW
I-7 (24" X 24"), M6-2 (12" X 9")
- 12 WESTBOUND MAPLE STREET/DETOUR/AHEAD ARROW
(SEE SIGN DETAILS)
- 13 WESTBOUND MAPLE STREET/DETOUR/LEFT ARROW
(SEE SIGN DETAILS)
- 14 LANE USE SIGN/LEFT-LANE LEFT-ARROW/
RIGHT-LANE-AHEAD ARROW
R3-8 (30" X 36")
- 15 DETOUR/AHEAD ARROW - ATTACH TO EXISTING
TRAIN STATION (SYM.) SIGN
M4-8 (24" X 12")/M6-2 (12" X 9")
- 16 DETOUR/BACK ARROW - ATTACH TO EXISTING
TRAIN STATION (SYM.) SIGN
M4-8 (24" X 12")/M6-2 (12" X 9")
- 17 DETOUR/LEFT ARROW - ATTACH TO EXISTING
TRAIN STATION (SYM.) SIGN
M4-8 (24" X 12")/M6-1 (12" X 9")



DETOUR SIGN DETAILS

* VARIABLE DETOUR DIRECTION.
SEE SIGN LEGEND FOR DETAILS.

SIGN NOTES:

1. TEMPORARY DETOUR SIGNS SHALL HAVE A BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND.

WESTBOUND DETOUR ROUTE
NOT TO SCALE

4/16/12 PM 1:46:53 File: V:\CTDOT\Workspaces\standard\yabbles\pen\001_pen\table_b\ack.tbl
3:15:10 maple st detour\16319_detour_sht.dgn
5/11/2012

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 5/11/2012

DESIGNER/DRAFTER:
CRH
CHECKED BY:
RJF
SCALE AS NOTED

BOROUGH OF NAUGATUCK
DEPARTMENT OF PUBLIC WORKS

File name: i:\16319 maple st detour\16319_detour_sht.dgn

SIGNATURE AND SEAL OF REGISTERED PROFESSIONAL ENGINEER
Clough Harbour & Associates LLP
2150 Blue Cove Highway, Suite 212, Rocky Hill, CT 06067-2008
Main: (860) 437-4827 - www.cha-engineers.com

PROJECT TITLE:
MAPLE STREET OVER NAUGATUCK RIVER

TOWN: NAUGATUCK	PROJECT NO. 9087-4214
DRAWING TITLE: DETOUR PLAN	DRAWING NO.
	SHEET NO. 25 of 25