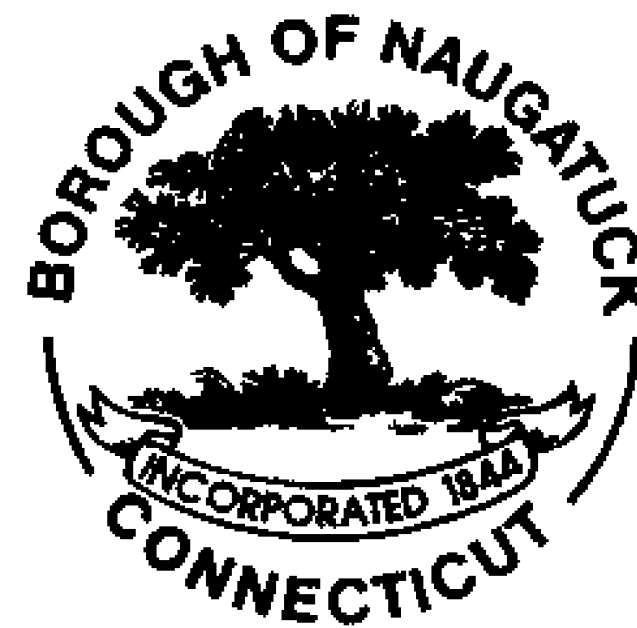
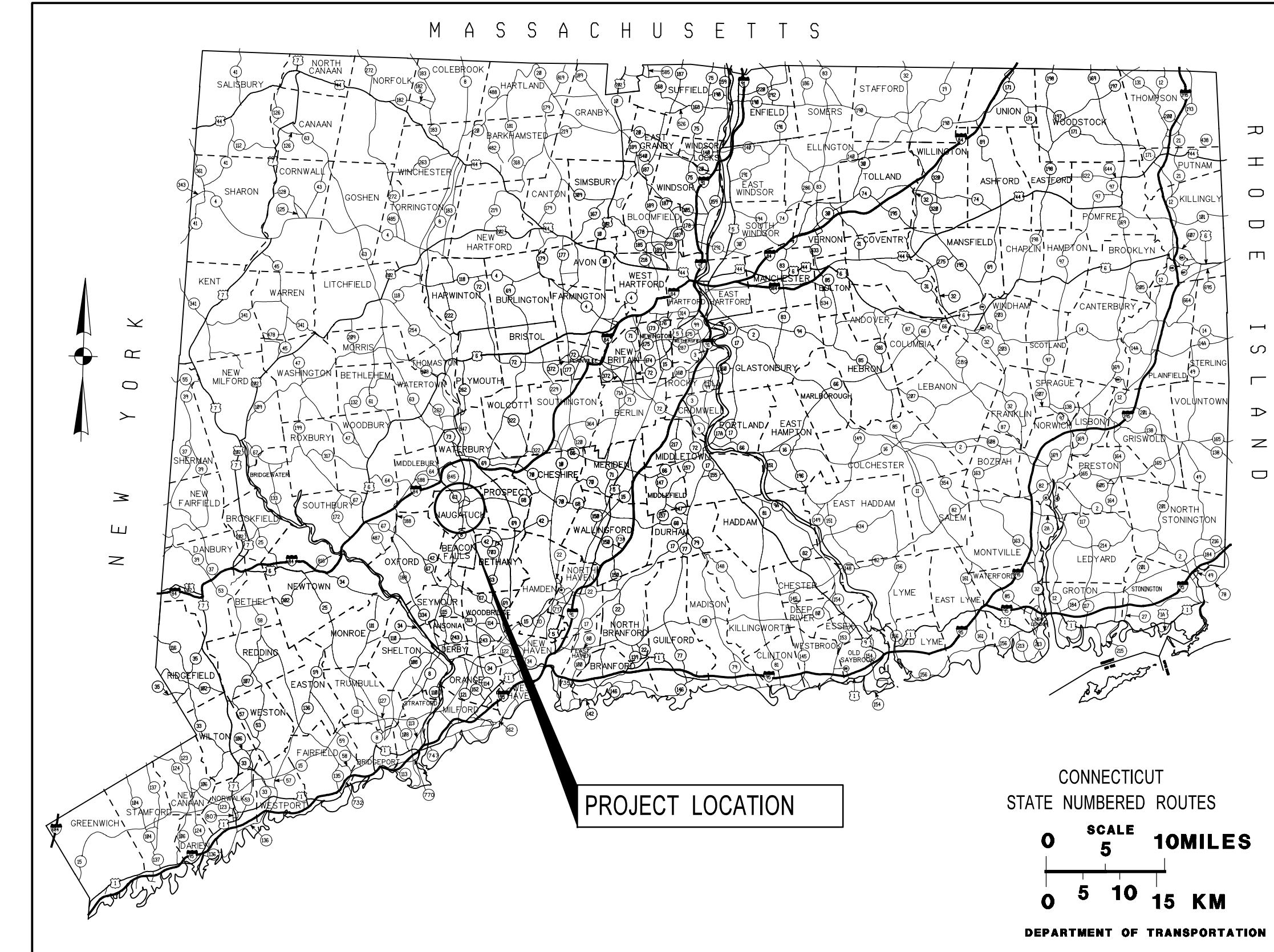


# BOROUGH OF NAUGATUCK DEPARTMENT OF PUBLIC WORKS



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

STATE PROJECT 9087-4000  
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	ALL	<a href="http://www.ct.gov/dot/cwp/view.asp?a=2303&amp;q=410884">http://www.ct.gov/dot/cwp/view.asp?a=2303&amp;q=410884</a>	VARIOUS
2	GENERAL NOTES AND QUANTITIES			
3	GENERAL PLAN			
4	POCKET PARK PLAN & DETAILS			
5	TYPICAL SECTIONS			
6	SIGNING AND STRIPING PLAN			
7	UTILITY PLAN			
8	UTILITY DETAILS			
9	BRIDGE GENERAL PLAN			
10	BORING 1 OF 2			
11	BORING 2 OF 2			
12	DECK SECTIONS			
13	DECK DETAILS 1 OF 2			
14	DECK DETAILS 2 OF 2			
15	ABUTMENT REPAIR DETAIL			
16	PIER 1 REPAIR DETAIL			
17	PIER 2 REPAIR DETAIL			
18	ARCH REPAIR DETAIL			
19	CHANNEL PLAN 1 OF 2			
20	CHANNEL PLAN 2 OF 2			
21	STAGE 1 PLAN			
22	STAGE 2 PLAN			
23	STAGE 1 CROSS SECTIONS			
24	STAGE 2 CROSS SECTIONS			
25	TEMPORARY SIGNAL PLAN STAGE 1			
26	TEMPORARY SIGNAL PLAN STAGE 2			
27	DETOUR PLAN			

### LEGEND

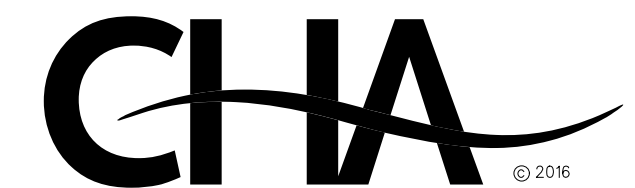
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING GAS MAIN
- EXISTING ELECTRICAL DUCT
- EXISTING TELECOMMUNICATIONS DUCT
- EXISTING UTILITY POLE
- EXISTING OVERHEAD WIRES
- SIGN
- EXISTING CATCH BASIN
- PROPOSED GAS MAIN
- PROPOSED ELECTRICAL DUCT
- PROPOSED TELECOMMUNICATIONS DUCT
- PROPOSED CABLE DUCT
- PROPOSED RIPRAP



DESIGNED BY: CLOUGH, HARBOUR & ASSOCIATES LLP

PER: Anthony M. Papile

DATE: 1/6/2016



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SUMMARY OF QUANTITIES

ITEM #	ITEM DESCRIPTION	UNIT	QUANT.
90060A	BRIDGE PLAQUE	EA.	1 **
201013A	REMOVAL OF EXISTING FENCE	LF	35
202002	EARTH EXCAVATION	C.Y.	140
202101	ROCK EXCAVATION	C.Y.	15
202202	CHANNEL EXCAVATION-EARTH	C.Y.	800
202491A	REMOVAL OF GRANITE STONE CURBING	L.F.	485
202529	CUT BITUMINOUS CONCRETE PAVEMENT	L.F.	300
204001	COFFERDAM AND DEWATERING	LF	1250
205004	ROCK IN TRENCH EXCAVATION 0'-10' DEEP	C.Y.	150
212000	SUBBASE	C.Y.	40
303050A	CONCRETE PAVER ON 4" CONCRETE BASE SLAB	SF	700
402903A	BRICK PAVING	S.F.	7600 **
406170	HMA S1	TON	125
406171	HMA S0.5	TON	180
406172	HMA S0.375	TON	80
406236	MATERIAL FOR TACK COAT	GAL.	100
406272A	MILLING OF HOT MIX ASPHALT (HMA) - 0-4 INCHES	S.Y.	1100
507006	TYPE "C" CATCH BASIN TOP	EA.	4
507701	RESET TYPE "C" CATCH BASIN	EA.	4
511203A	POLYVINYL CHLORIDE PLASTIC PIPE WEEPHOLES	EA.	5
511211A	CONSTRUCT WEEP DRAINS	EA.	9
514981A	PRECAST CONCRETE ARCHITECTURAL PANELS (SITE NO. 1)	L.S.	1 **
520036A	ASPHALTIC PLUG EXPANSION JOINT SYSTEM	L.F.	80
601196A	VARIABLE DEPTH PATCH	C.F.	5000
601201	CLASS "F" CONCRETE	C.Y.	450
601231A	LIGHTWEIGHT CONCRETE	C.Y.	400 **
601418A	BLAST CLEAN EXISTING CONCRETE	S.F.	5000 **
602002	DEFORMED STEEL BARS	LB.	13000
602006	DEFORMED STEEL BARS-EPOXY COATED	LB.	35000
602890	DOWEL BAR SPlicer SYSTEM	EA.	4700
602910A	DRILLING HOLES AND GROUING DOWELS	EA.	550
603736A	SPECIAL PAINTING TREATMENT	S.F.	3200 **
603893A	TEMPORARY SLAB SUPPORT	L.F.	400
605000A	DIMENSION STONE MASONRY	S.Y.	3
605001A	BLOCK STONE MASONRY	EA.	4.0 **
609030A	REPOINT MORTAR JOINTS	L.F.	700.0 **
651012	18" R.C. PIPE	L.F.	20
703010A	STANDARD RIPRAP	TON	90
703029A	ROUNDED STONE RIPRAP	TON	1500
707001	MEMBRANE WATERPROOFING (WOVEN GLASS FABRIC)	S.Y.	850
755009	GEOTEXTILE	S.Y.	400
811001	CONCRETE CURBING	L.F.	25
813001	5" GRANITE STONE CURBING	L.F.	100
813011	5" GRANITE CURVED STONE CURBING	L.F.	45
814002	RESET GRANITE STONE CURBING	L.F.	15
818022A	COLOR ADDITIVE FOR CONCRETE	S.F.	3200 **
822001A	TEMPORARY PRECAST CONCRETE BARRIER CURB	L.F.	150
822005A	TEMPORARY PRECAST CONCRETE BARRIER CURB (STRUCTURE)	L.F.	180
822006A	RELOCATED TEMPORARY PRECAST CONCRETE BARRIER CURB (STRUCTURE)	L.F.	180
904136A	REMOVAL OF EXISTING METAL BRIDGE RAIL	L.F.	360
914017A	ORNAMENTAL METAL FENCE (5' HIGH)	LF	52
921001A	CONCRETE SIDEWALK	S.F.	2000
921036A	RETRO-FIT DETECTABLE WARNING STRIP	EA	4 **
944000	FURNISHING AND PLACING TOPSOIL	SY	8 **
949000	WOOD CHIP MULCH	SY	12 **
949039	BETULA NIGRA "HERITAGE" HERITAGE RIVER BIRCH 2 1/2" - 3" cal. B.B.	EA	2
949071	PYRUS CALLERYANA 'CLEVELAND SELECT' CLEVELAND SELECT FLOWERING PEAR 2"-2 1/2" cal. B.B.	EA	2
949243	SPIRAEAxBUMALDA 'ANTHONY WATERER' ANTHONY WATERER SPIREA 15"-18" ht. #2CONT.	EA	33 **
949255	JUNIPERUS HORIZONTALIS 'BLUE CHIP' BLUE CHIP JUNIPER 15"-18" sprd. #3CONT.	EA	31 **
949670	THUJA OCCIDENTALIS 'NIGRA' DARK GREEN ARBOVITAE 3'-4' ht. B.B.	EA	10 **
949731	TAXUS X MEDIA 'WARDII' COMPACT YE W 18"-24" ht. B.B.	EA	27 **
950005	TURF ESTABLISHMENT	SY	8 **
952100A	PLANTER - CONCRETE	EA.	6 **
969060A	CONSTRUCTION FIELD OFFICE, SMALL	MO.	20
970006A	TRAFFICPERSON (MUNICIPAL POLICE OFFICER)	\$/hr	76 *
971001A	MAINTENANCE AND PROTECTION OF TRAFFIC	L.S.	1
974001A	REMOVAL OF EXISTING MASONRY	C.Y.	750
975002A	MOBILIZATION	L.S.	1
978002	TRAFFIC DRUM	EA.	10
979003	CONSTRUCTION BARRICADE TYPE III	EA.	15
1001002A	TRENCHING AND BACKFILLING (TYPE I)	L.F.	710
1001003A	TRENCHING AND BACKFILLING (TYPE II)	L.F.	125
1001004A	TRENCHING AND BACKFILLING (TYPE III)	L.F.	130
1003595A	DECORATIVE LIGHT POLE AND LIGHT FIXTURE	EA	7 **

SUMMARY OF QUANTITIES

ITEM #	ITEM DESCRIPTION	UNIT	QUANT.
1003906A	REMOVE LIGHT STANDARD	EA.	2 **
1008138A	4" POLYVINYL CHLORIDE CONDUIT IN STRUCTURE	L.F.	380
1008143A	4" POLYVINYL CHLORIDE CONDUIT UNDER ROADWAY	L.F.	950
1008144A	5" POLYVINYL CHLORIDE CONDUIT UNDER ROADWAY	L.F.	1110
1008215A	2" RIGID METAL CONDUIT UNDER ROADWAY	L.F.	200
1008315A	2" RIGID METAL CONDUIT IN STRUCTURE	L.F.	340
1008870A	5" FIBERGLASS CONDUIT - HEAVY WALL	L.F.	1520
1009005	8" X 8" X 8" CAST IRON JUNCTION BOX	EA.	4
1010917A	INSTALL PRECAST CONCRETE MANHOLE	EA.	2
1108724A	PHASE SELECTOR	EA.	1
1112410A	DETECTOR (TYPE A)	EA.	1
1112470A	PRE-EMPTION SYSTEM CHASSIS	EA.	1
1113550A	DETECTOR CABLE (OPTICAL)	L.F.	500
1116100A	INTERNALLY ILLUMINATED SIGN (LED)	EA.	1
1118051A	TEMPORARY SIGNALIZATION (SITE 1)	L.S.	1
1206013A	REMOVAL OF EXISTING SIGNING	L.S.	1
1208928	SIGN FACE - SHEET ALUMINUM (TYPE III REFLECTIVE SHEETING)	S.F.	80
1208997A	ORNAMENTAL SIGN POST	EA.	4 **
1209005	PAINTED PAVEMENT MARKINGS (4") (WHITE)	L.F.	600
1209007	PAINTED PAVEMENT MARKINGS (4") (YELLOW)	L.F.	600
1209009	PAINTED PAVEMENT MARKINGS (12") (WHITE)	L.F.	25
1209401	PAINTED LEGEND, ARROWS AND MARKINGS	S.F.	150
1210101	4" WHITE EPOXY RESIN PAVEMENT MARKINGS	L.F.	100
1210102	4" YELLOW EPOXY RESIN PAVEMENT MARKINGS	L.F.	570
1210104	8" WHITE EPOXY RESIN PAVEMENT MARKINGS	L.F.	110
1210105	EPOXY RESIN PAVEMENT MARKINGS, SYMBOLS AND LEGENDS	S.F.	1200
1210106	12" WHITE EPOXY RESIN PAVEMENT MARKINGS	L.F.	70
1211001	REMOVAL OF PAVEMENT MARKINGS	S.F.	170
1211003	REMOVAL OF PLASTIC PAVEMENT MARKINGS	S.F.	400 **
1212001	TEMPORARY PLASTIC PAVEMENT MARKING TAPE (4") (YELLOW)	L.F.	600 **
1212002	TEMPORARY PLASTIC PAVEMENT MARKING TAPE (4") (WHITE)	L.F.	600 **
1212010	TEMPORARY PLASTIC PAVEMENT MARKING TAPE (12") (WHITE)	L.F.	25 **
1212017	TEMPORARY PLASTIC LEGEND ARROWS AND MARKINGS	S.F.	150 **
1220027	CONSTRUCTION SIGNS	S.F.	500
1504040A	TEMPORARY SUPPORT FOR EXISTING TELEPHONE DUCTS	L.S.	1
1807016A	TEMPORARY IMPACT ATTENUATION SYSTEM TYPE A (TL-2)	EA.	2
1807101	RELOCATION OF TEMPORARY IMPACT ATTENUATION SYSTEM TYPE A	EA.	2

\* AN HOURLY RATE HAS BEEN INSERTED FOR BIDDING PURPOSES, HOWEVER THIS ITEM IS TO BE PAID BY THE ACTUAL COST UP TO THE NUMBER OF HOURS BID AS DESCRIBED IN THE SPECIFICATIONS.

\*\* BOROUGH MAY CONSIDER ELIMINATING ANY ITEM FROM THE CONTRACT OR USING OTHER BID ITEMS FOR THE WORK AT THEIR DISCRETION. NO COMPENSATION WILL BE MADE TO THE CONTRACTOR FOR ELIMINATING ANY ITEMS. SPECIFICALLY THE ITEMS NOTED MAY BE ELIMINATED.

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:

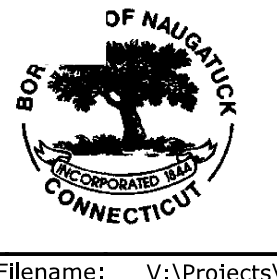
- DESIGN SPECIFICATIONS: ALL ROAD, DRAINAGE AND STRUCTURAL WORK (AND APPURTENANT WORK) SHALL BE PERFORMED IN ACCORDANCE WITH THE TECHNICAL REQUIREMENTS, INCLUDING MATERIALS AND METHODS, OF THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION, FORM 816, 2004 (INCLUDING ADDENDUMS AND SUPPLEMENTALS) UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.
- CTDOT STANDARD SHEETS: THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL OF THE CONNECTICUT DEPARTMENT OF TRANSPORTATION (CTDOT) STANDARD SHEETS THAT PERTAIN TO ANY OF THE WORK ON THIS PROJECT. 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 LATEST 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 811 (800-922-4455) 72 HOURS 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: STATIONS 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:  
  
FRONTIER COMMUNICATIONS - TELEPHONE  
TOM DELORENZO  
(203) 238-5202  
OR  
GLEN MC CLOUD  
(203) 575-6703  
  
EVERSOURCE ENERGY  
ROB PANTALONE - GAS  
(203) 596-3020  
BRIAN MORGAN - ELECTRIC  
(203) 597-4233  
  
COMCAST - CABLE  
DAVE GERRISH  
(203) 732-0146 EXT. 73801
- EXCAVATION: FINAL EXCAVATION LIMITS SHALL BE DETERMINED IN THE FIELD, BY 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.

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REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 1/7/2016
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DESIGNER/DRAFTER: JSP  
CHECKED BY: RJF  
SCALE AS NOTED

BOROUGH OF NAUGATUCK  
DEPARTMENT OF PUBLIC WORKS



SIGNATURE/BLOCK: 

CHA  
CONTRACTORS HARBOUR & ASSOCIATES LLP  
2130 Silas Deane Highway, Suite 212, Rocky Hill, CT 06067-2539  
Tel: (860) 251-4007 - www.cha-naugatuck.com

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

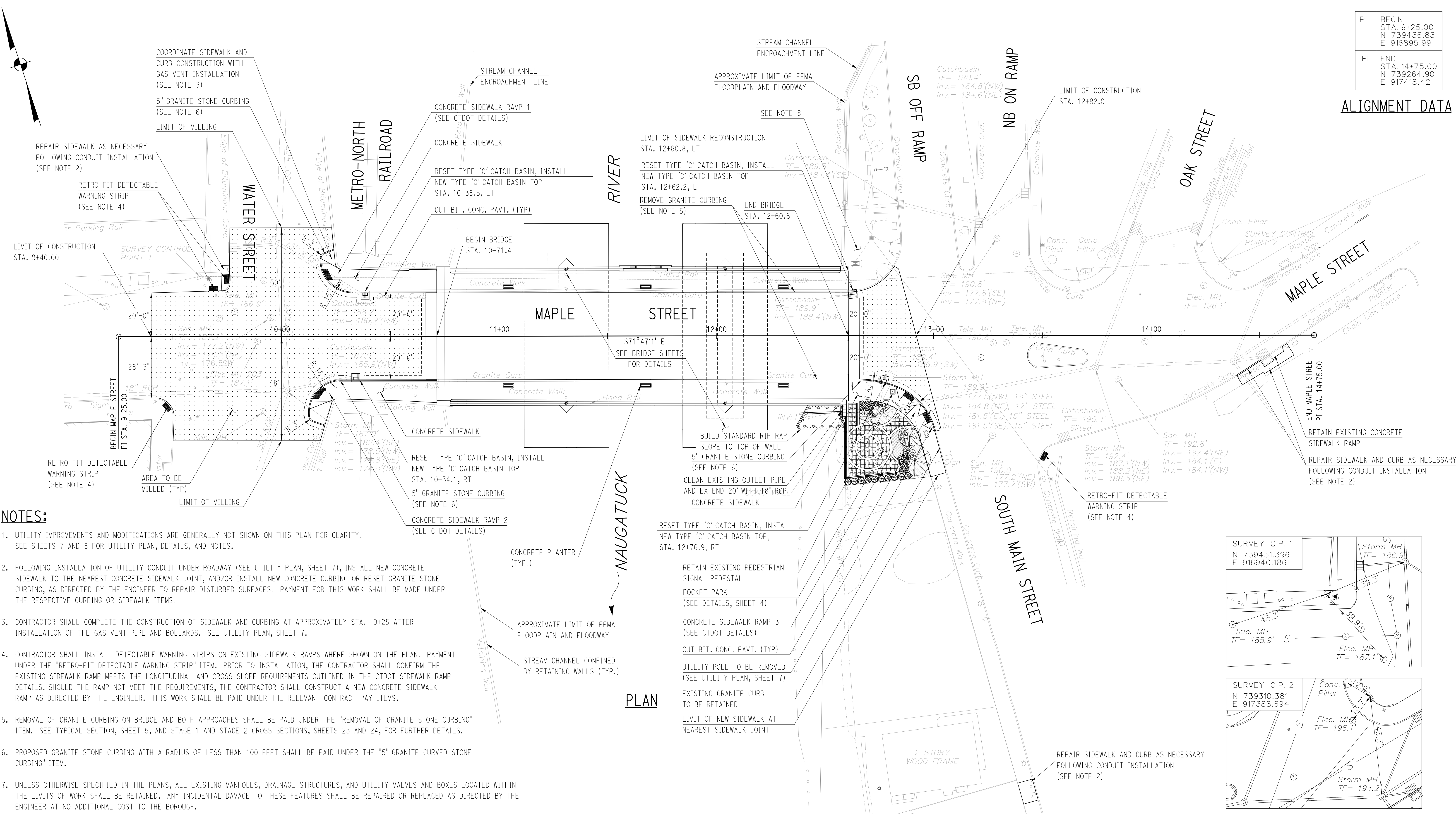
TOWN: NAUGATUCK  
DRAWING TITLE: **GENERAL NOTES AND QUANTITIES**

PROJECT NO. **9087-4000**  
DRAWING NO.  
SHEET NO. **2** of **27**



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PI	END STA. 14+75.00 N 739264.90 E 917418.42

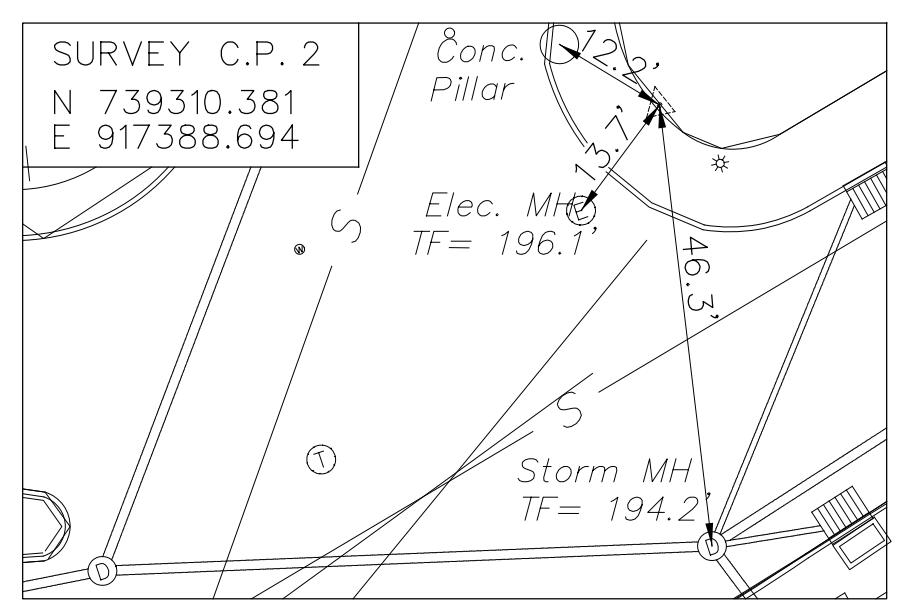
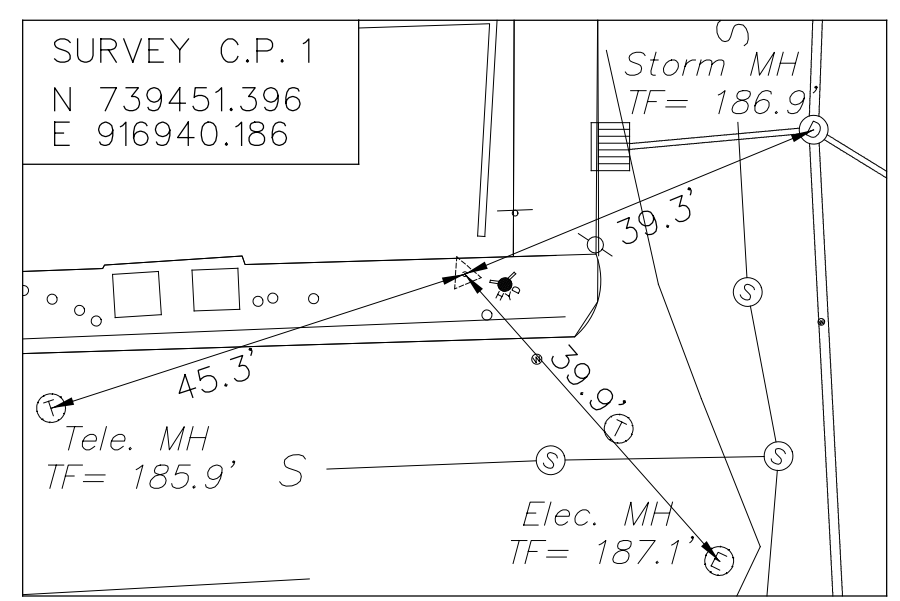
**ALIGNMENT DATA**



**NOTES:**

- UTILITY IMPROVEMENTS AND MODIFICATIONS ARE GENERALLY NOT SHOWN ON THIS PLAN FOR CLARITY. SEE SHEETS 7 AND 8 FOR UTILITY PLAN, DETAILS, AND NOTES.
- FOLLOWING INSTALLATION OF UTILITY CONDUIT UNDER ROADWAY (SEE UTILITY PLAN, SHEET 7), INSTALL NEW CONCRETE SIDEWALK TO THE NEAREST CONCRETE SIDEWALK JOINT, AND/OR INSTALL NEW CONCRETE CURBING OR RESET GRANITE STONE CURBING, AS DIRECTED BY THE ENGINEER TO REPAIR DISTURBED SURFACES. PAYMENT FOR THIS WORK SHALL BE MADE UNDER THE RESPECTIVE CURBING OR SIDEWALK ITEMS.
- CONTRACTOR SHALL COMPLETE THE CONSTRUCTION OF SIDEWALK AND CURBING AT APPROXIMATELY STA. 10+25 AFTER INSTALLATION OF THE GAS VENT PIPE AND BOLLARDS. SEE UTILITY PLAN, SHEET 7.
- CONTRACTOR SHALL INSTALL DETECTABLE WARNING STRIPS ON EXISTING SIDEWALK RAMP WHERE SHOWN ON THE PLAN. PAYMENT UNDER THE "RETRO-FIT DETECTABLE WARNING STRIP" ITEM. PRIOR TO INSTALLATION, THE CONTRACTOR SHALL CONFIRM THE EXISTING SIDEWALK RAMP MEETS THE LONGITUDINAL AND CROSS SLOPE REQUIREMENTS OUTLINED IN THE CTDOT SIDEWALK RAMP DETAILS. SHOULD THE RAMP NOT MEET THE REQUIREMENTS, THE CONTRACTOR SHALL CONSTRUCT A NEW CONCRETE SIDEWALK RAMP AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE PAID UNDER THE RELEVANT CONTRACT PAY ITEMS.
- REMOVAL OF GRANITE CURBING ON BRIDGE AND BOTH APPROACHES SHALL BE PAID UNDER THE "REMOVAL OF GRANITE STONE CURBING" ITEM. SEE TYPICAL SECTION, SHEET 5, AND STAGE 1 AND STAGE 2 CROSS SECTIONS, SHEETS 23 AND 24, FOR FURTHER DETAILS.
- PROPOSED GRANITE STONE CURBING WITH A RADIUS OF LESS THAN 100 FEET SHALL BE PAID UNDER THE "5" GRANITE CURVED STONE CURBING" ITEM.
- UNLESS OTHERWISE SPECIFIED IN THE PLANS, ALL EXISTING MANHOLES, DRAINAGE STRUCTURES, AND UTILITY VALVES AND BOXES LOCATED WITHIN THE LIMITS OF WORK SHALL BE RETAINED. ANY INCIDENTAL DAMAGE TO THESE FEATURES SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE BOROUGH.
- ANY INCIDENTAL DAMAGE TO FEATURES (INCLUDING BUT NOT LIMITED TO CONCRETE AND BITUMINOUS PAVED SURFACES, BRICK PAVED SURFACES, CURBS, LANDSCAPING, STREET FURNITURE, DECORATIVE RAILINGS, SIGNAGE, LIGHTING) THAT ARE LOCATED ADJACENT TO THE WORK LIMITS OR WITHIN CONTRACTOR STAGING AREAS SHALL BE REPAIRED OR REPLACED TO ORIGINAL CONDITION OR BETTER AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE BOROUGH.

**PLAN**



**CONTROL POINTS**

SCALE: 1" = 20'

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REV.	DATE	REVISION DESCRIPTION	SHEET NO.

DESIGNER/DRAFTER: **JSP**  
 CHECKED BY: **RJF**  
 SCALE IN FEET  
 0 20 40  
 SCALE 1"=20'

**BOROUGH OF NAUGATUCK**  
 DEPARTMENT OF PUBLIC WORKS

SIGNATURE/BLOCK: **CHA**  
 CONSULTING ENGINEER  
 HARBOR & ASSOCIATES LLP  
 2130 State Route 202, Suite 212, Rocky Hill, CT 06067-2538  
 (860) 251-4007 • www.dhna.com

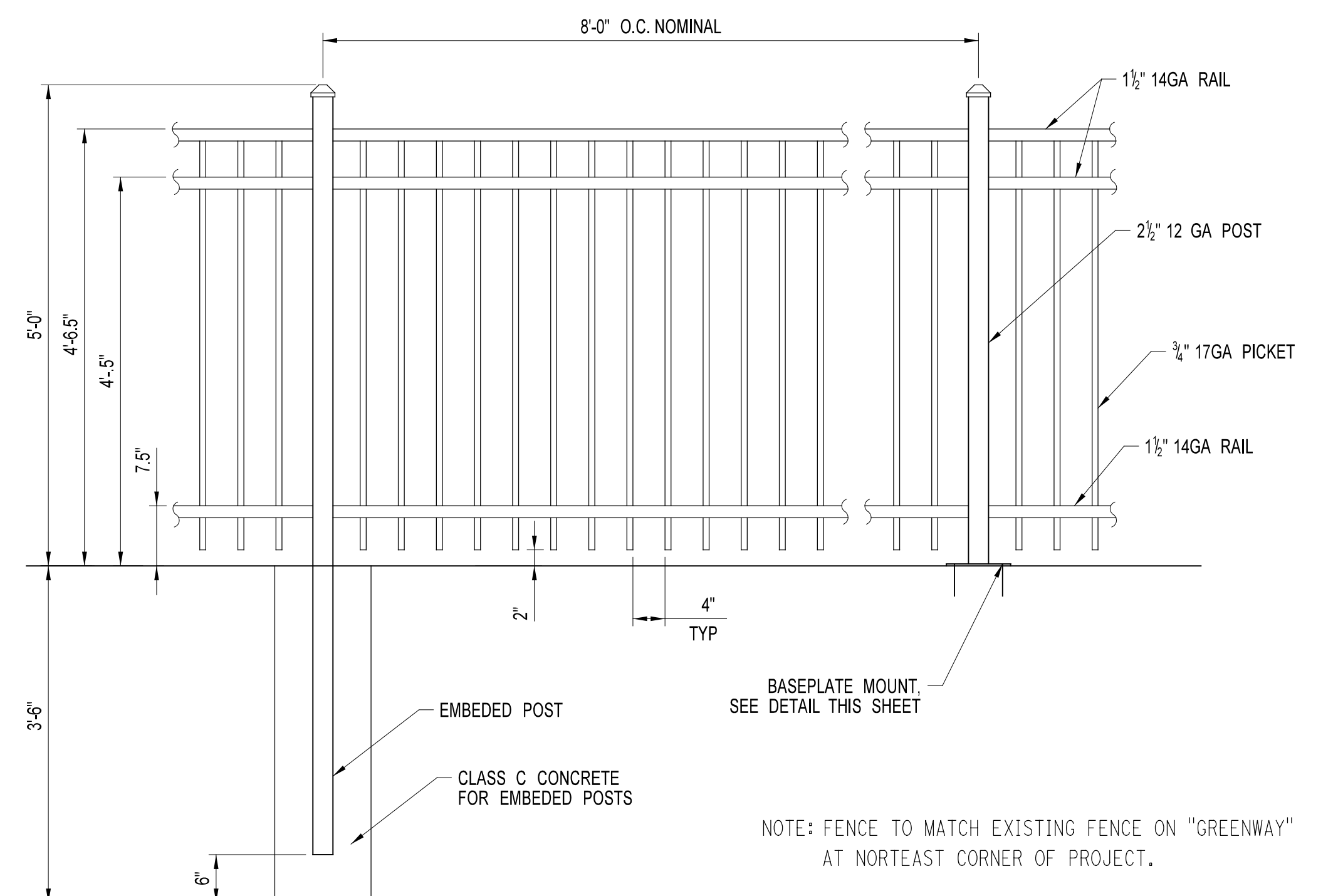
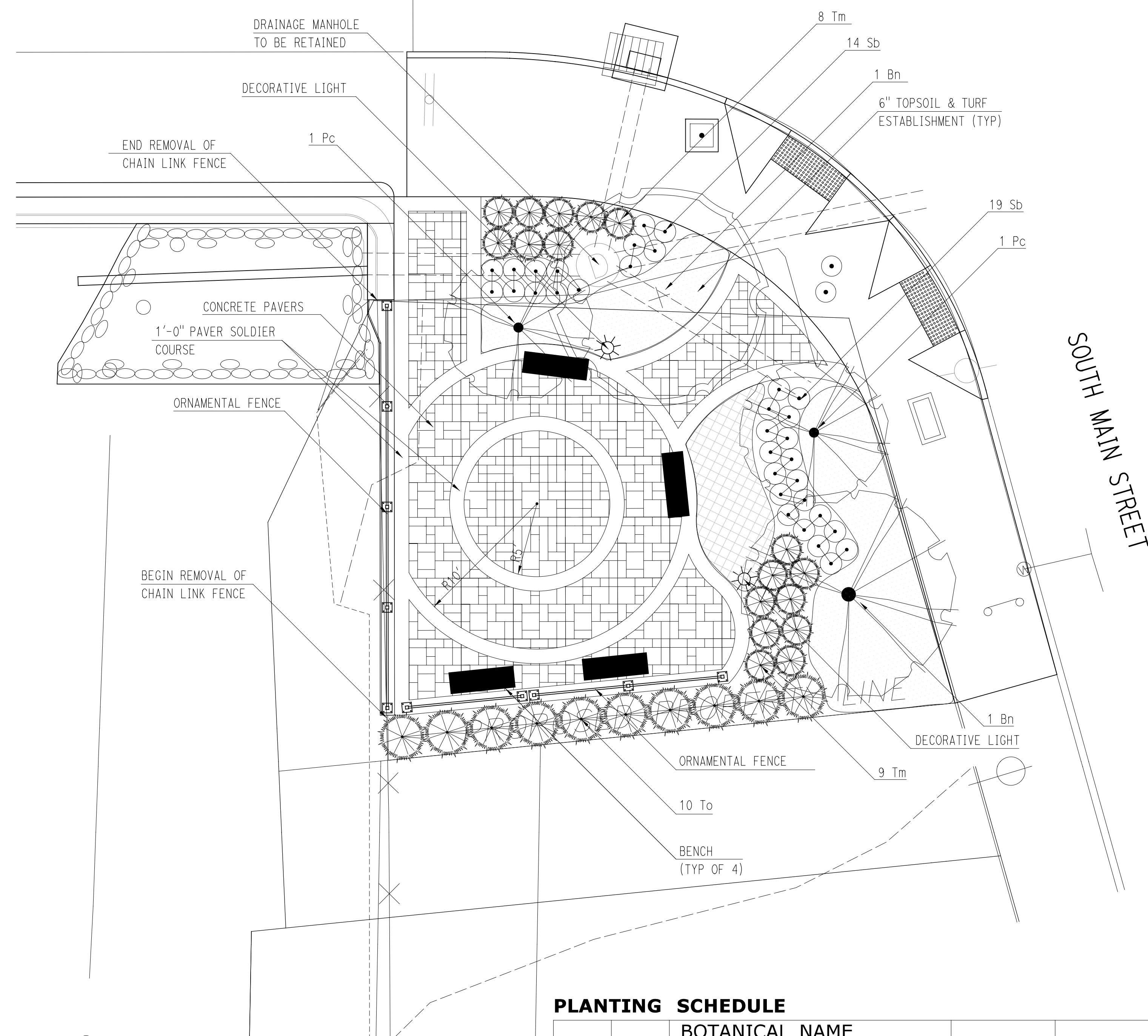
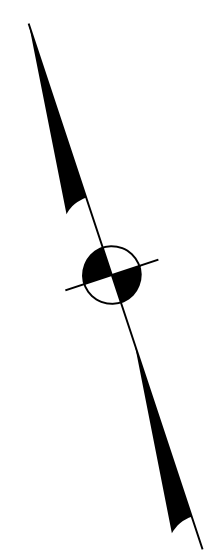
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TOWN: **NAUGATUCK**  
 DRAWING TITLE: **GENERAL PLAN**

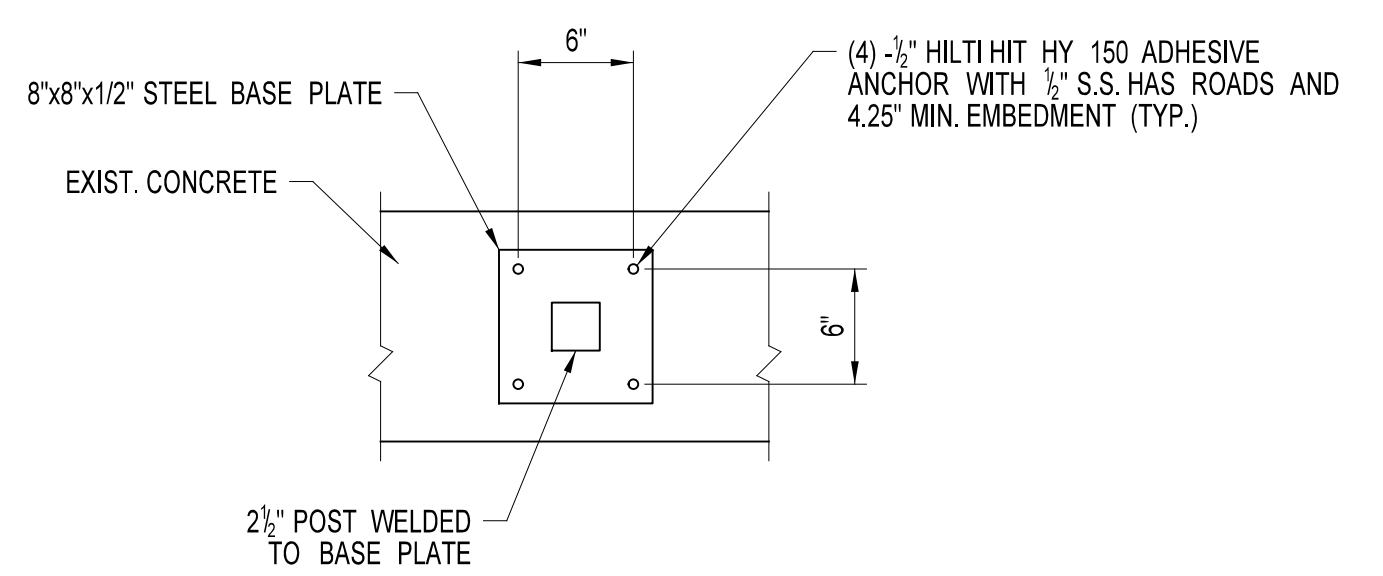
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 DRAWING NO.   
 SHEET NO. **3 of 27**



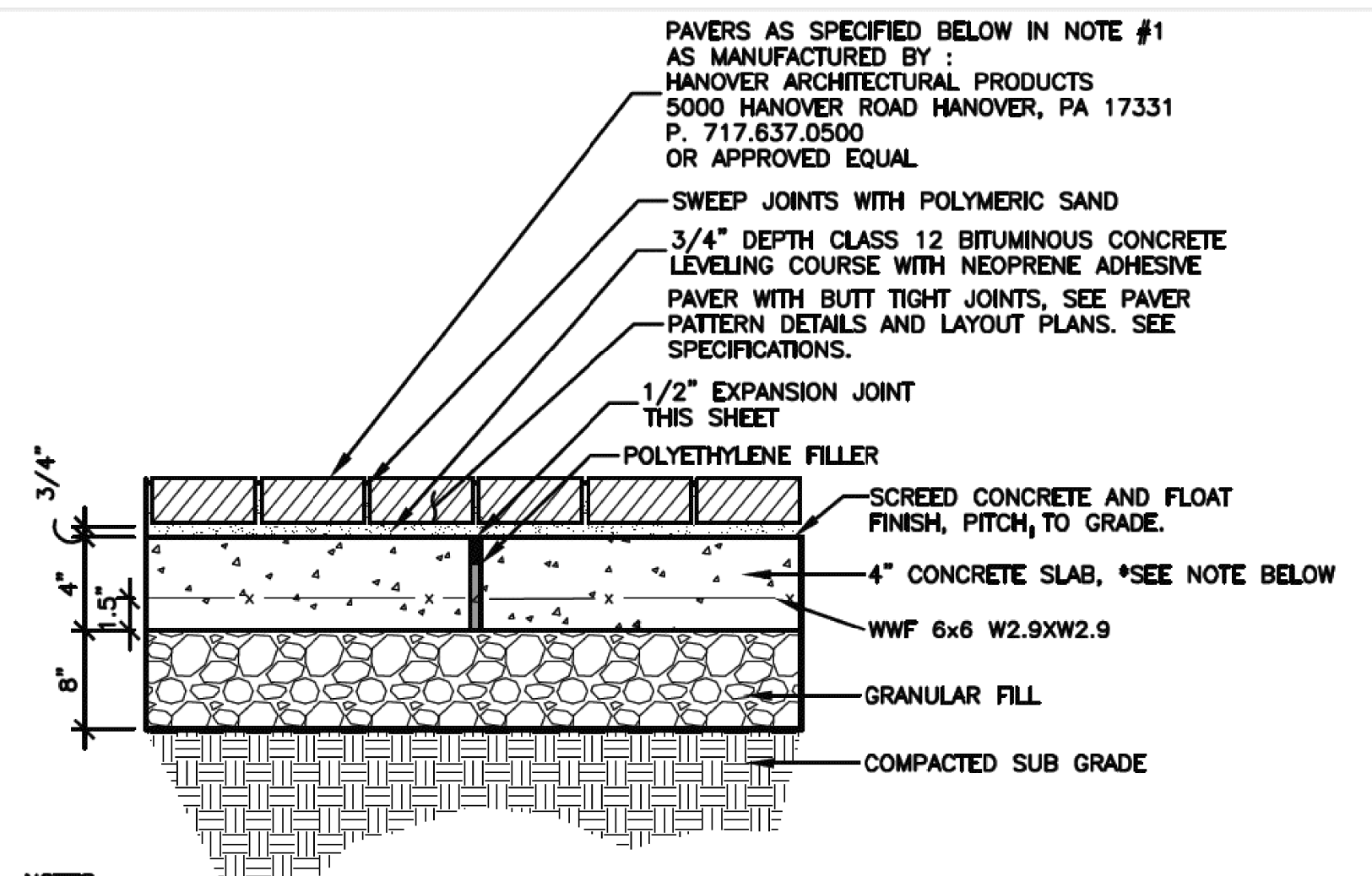
MAPLE STREET



**ORNAMENTAL METAL FENCE**  
N.T.S.



**ORNAMENTAL METAL FENCE BASE PLATE**  
N.T.S.



- NOTES:**
- PAVER FIELDS SHALL BE: STYLE: APIAN BRICK TUMBLED FINISH, SIZE: MIXED, COLOR: SALMON/CHARCOAL BLEND, PATTERN: RANDOM. PAVES BANDING TO BE: STYLE: HALIFAX FLAGSTONE, SIZE: 12"x12" & 8"x12", COLOR: SOUTH MOUNTAIN SAND, PATTERN: SOLDIER COURSE
  - EXP. JOINTS 20'± O.C. MAX. SEE CONSTRUCTION LAYOUT PLANS. CONCRETE BASE SHALL BE SCREEDED WITH A FLOAT FINISH AND PITCHED TO GRADE
  - 3/4" CLASS 12 BIT. SETTING BED SHALL BE SCREEDED TO PROPER ELEVATIONS
  - CONTRACTOR SHALL CONSTRUCT A 5'X5' PAVER SAMPLE PATTERN FOR APPROVAL BY THE LANDSCAPE ARCHITECT AND BOROUGH OF NAUGATUCK ENGINEER.

**UNIT PAVER SIDEWALK**  
NOT TO SCALE

**PLANTING SCHEDULE**

KEY	QTY.	BOTANICAL NAME COMMON NAME	SIZE	ROOT	SPACING	REMARKS
<b>TREES</b>						
Bn	2	BETULA nigra 'Heritage' Heritage River Birch	2-1/2"-3" cal.	B&B	As Shown	Single Stem
Pc	2	PYRUS calleryana 'Cleveland Select' Cleveland Select Flowering Pear	2"-2 1/2" cal.	B&B	As Shown	Specimen
To	10	THUJA occidentalis 'Nigra' Dark Green Arborvitae	3'-4' height	B&B	As Shown	Specimen
<b>SHRUBS, GROUNDCOVER AND LAWN</b>						
	31	JUNIPERUS horizontalis 'Blue Chip' Blue Chip Juniper	15"-18" sprd.	#3 Cont.	18" o.c.	
Sb	33	SPIRAEA x bumalda 'Anthony Waterer' Anthony Waterer Spirea	15"-18" height	#2 Cont.	As Shown	
Tm	17	TAXUS media 'Wardii' Compact Yew	18"-24" height	B&B	As Shown	

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**BOROUGH OF NAUGATUCK**  
 DEPARTMENT OF PUBLIC WORKS

SIGNATURE/BLOCK:   
**CHA**  
 CROUCH HARBOUR & ASSOCIATES LLP  
 2130 State Route 212, Rocky Hill, CT 06067-2130  
 (860) 251-4007 • www.cha-naugatuck.com

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

TOWN:  
**NAUGATUCK**  
 DRAWING TITLE:  
**POCKET PARK  
 PLAN & DETAILS**

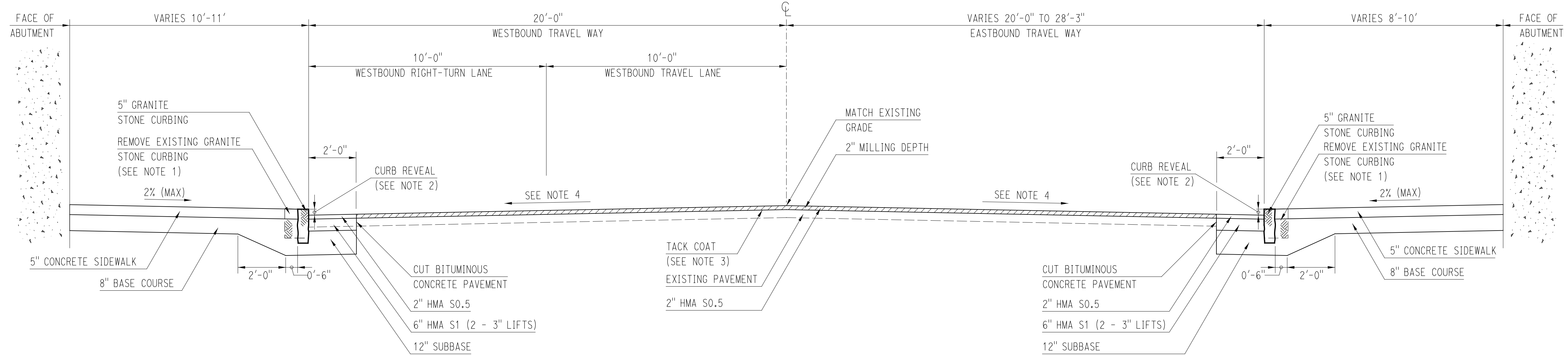
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**9087-4000**  
 DRAWING NO.  
 SHEET NO.  
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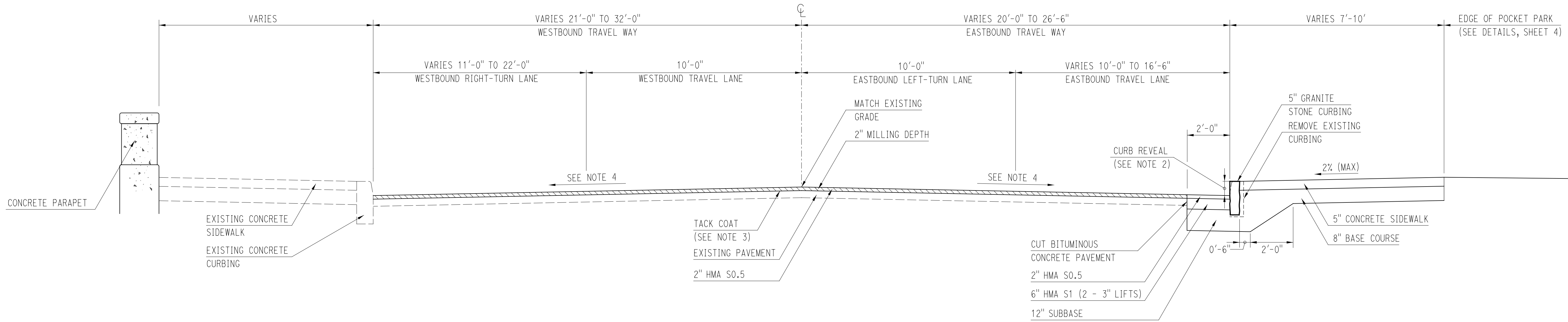
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**TYPICAL SECTION - WEST APPROACH**  
**MAPLE STREET**  
 STA. 9+40.0 TO STA. 10+64.4  
 NOT TO SCALE



**TYPICAL SECTION - EAST APPROACH**  
**MAPLE STREET**  
 STA. 12+67.8 TO STA. 12+92.0  
 NOT TO SCALE


**NOTES:**

1. 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.
2. TRANSITION CURB REVEAL FROM 3 INCHES AT BEGIN/END BRIDGE TO 6 INCHES OVER A MINIMUM DISTANCE OF 12 FEET.
3. TACK COAT TO BE APPLIED AT A RATE OF 0.07 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.
4. 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+67.8 TO MATCH EXISTING AT STA. 12+92.

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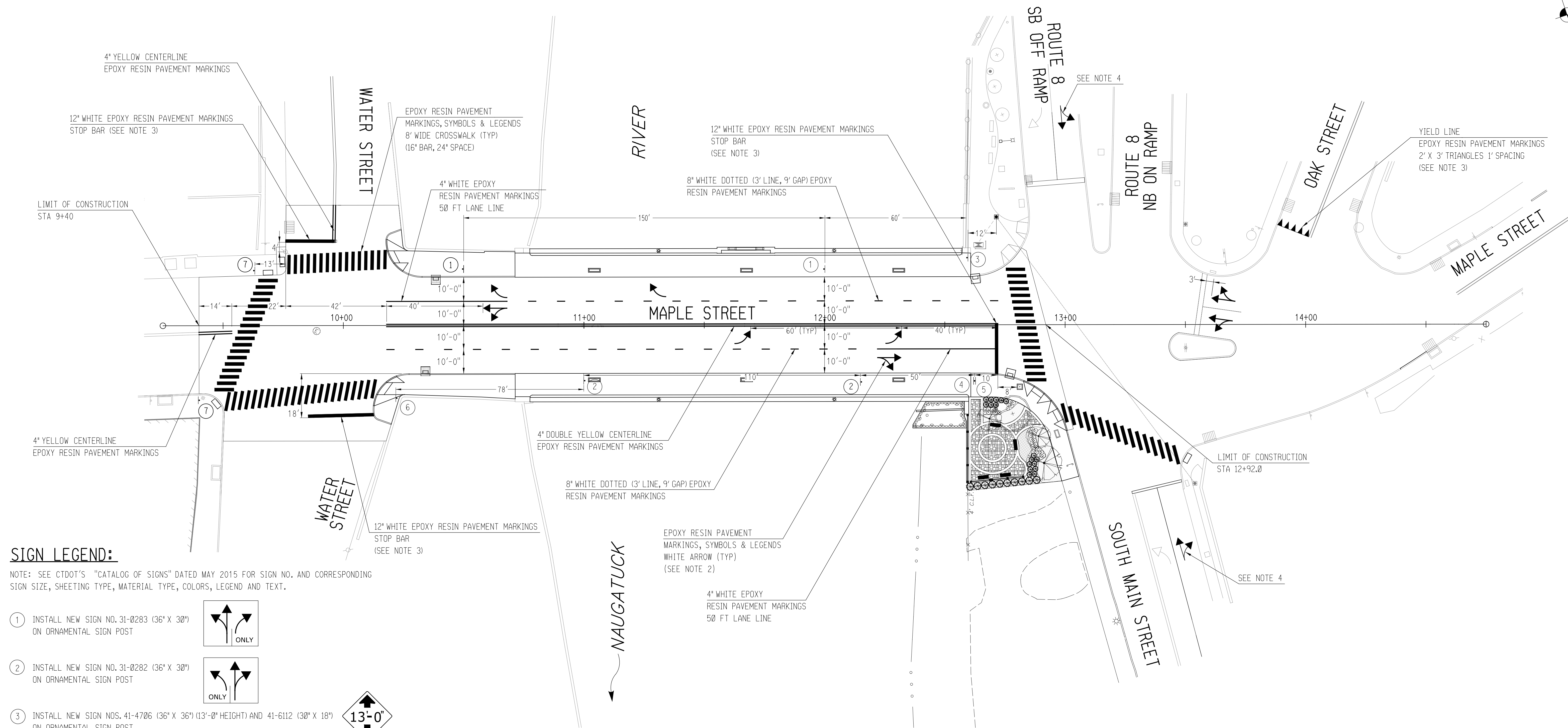
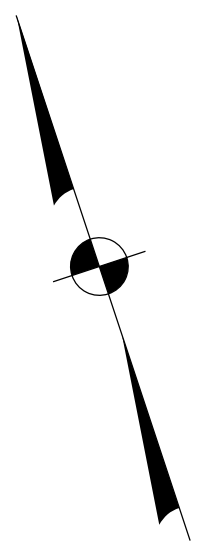

**BOROUGH OF NAUGATUCK**  
 DEPARTMENT OF PUBLIC WORKS

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**CHA**  
 CONSTRUCTION HARBOUR & ASSOCIATES LLP  
 2130 State Street, Suite 212, Rocky Hill, CT 06067-2539  
 Tel: (860) 251-4007 - www.cha-naugatuck.com

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

TOWN:  
**NAUGATUCK**  
 DRAWING TITLE:  
**TYPICAL SECTIONS**

PROJECT NO.  
**9087-4000**  
 DRAWING NO.  
 SHEET NO.  
**5 of 27**



**SIGN LEGEND:**

NOTE: SEE CTDOT'S "CATALOG OF SIGNS" DATED MAY 2015 FOR SIGN NO. AND CORRESPONDING SIGN SIZE, SHEETING TYPE, MATERIAL TYPE, COLORS, LEGEND AND TEXT.

- ① INSTALL NEW SIGN NO. 31-0283 (36" X 30") ON ORNAMENTAL SIGN POST
- ② INSTALL NEW SIGN NO. 31-0282 (36" X 30") ON ORNAMENTAL SIGN POST
- ③ INSTALL NEW SIGN NOS. 41-4706 (36" X 36") (13'-0" HEIGHT) AND 41-6112 (30" X 18") ON ORNAMENTAL SIGN POST
- ④ REMOVE EXISTING AND INSTALL NEW SIGN NOS. 51-6620 (24" X 12"), 51-6613 (24" X 12"), 51-6616 (8", 24" X 24") AND 51-2626 (RT) (21" X 15") ON ORNAMENTAL SIGN POST
- ⑤ REMOVE EXISTING AND INSTALL NEW SIGN NOS. 51-6620 (24" X 12"), 51-6613 (24" X 12"), 51-6616 (8", 24" X 24") AND 51-2626 (LT) (21" X 15") BACK TO BACK WITH SIGN ASSEMBLY 4.
- ⑥ REMOVE EXISTING WEIGHT LIMIT SIGN AND POST
- ⑦ INSTALL NEW SIGN NOS. 41-4810 (30" X 30") AND 41-2617 (24" X 12") ON STANDARD SIGN POST BLACK BORDER & LEGEND ON FLUORESCENT YELLOW-GREEN BACKGROUND ON STANDARD POST

**SIGNING & STRIPING PLAN**

**NOTES:**

1. SEE CTDOT STANDARD SHEET TR-1210.03; SPECIAL DETAILS AND PAVEMENT MARKINGS FOR TWO-WAY HIGHWAYS FOR PAVEMENT ARROW, CROSSWALK AND OTHER APPLICABLE DETAILS.
2. PAVEMENT MARKING ARROWS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS, FINAL PLACEMENT SHALL BE AT THE DIRECTION OF THE ENGINEER.
3. STOP BARS AND YIELD LINES SHALL BE LOCATED A MINIMUM OF 4 FEET FROM THE ADJACENT CROSSWALK. SEE CTDOT STANDARD SHEET TR-1210.03; SPECIAL DETAILS AND PAVEMENT MARKINGS FOR TWO-WAY HIGHWAYS.
4. PROPOSED PAVEMENT MARKING ARROWS ON ROUTE 8 RAMP AND SOUTH MAIN STREET SHALL BE ALIGNED WITH EXISTING ARROWS IN ADJACENT LANE.

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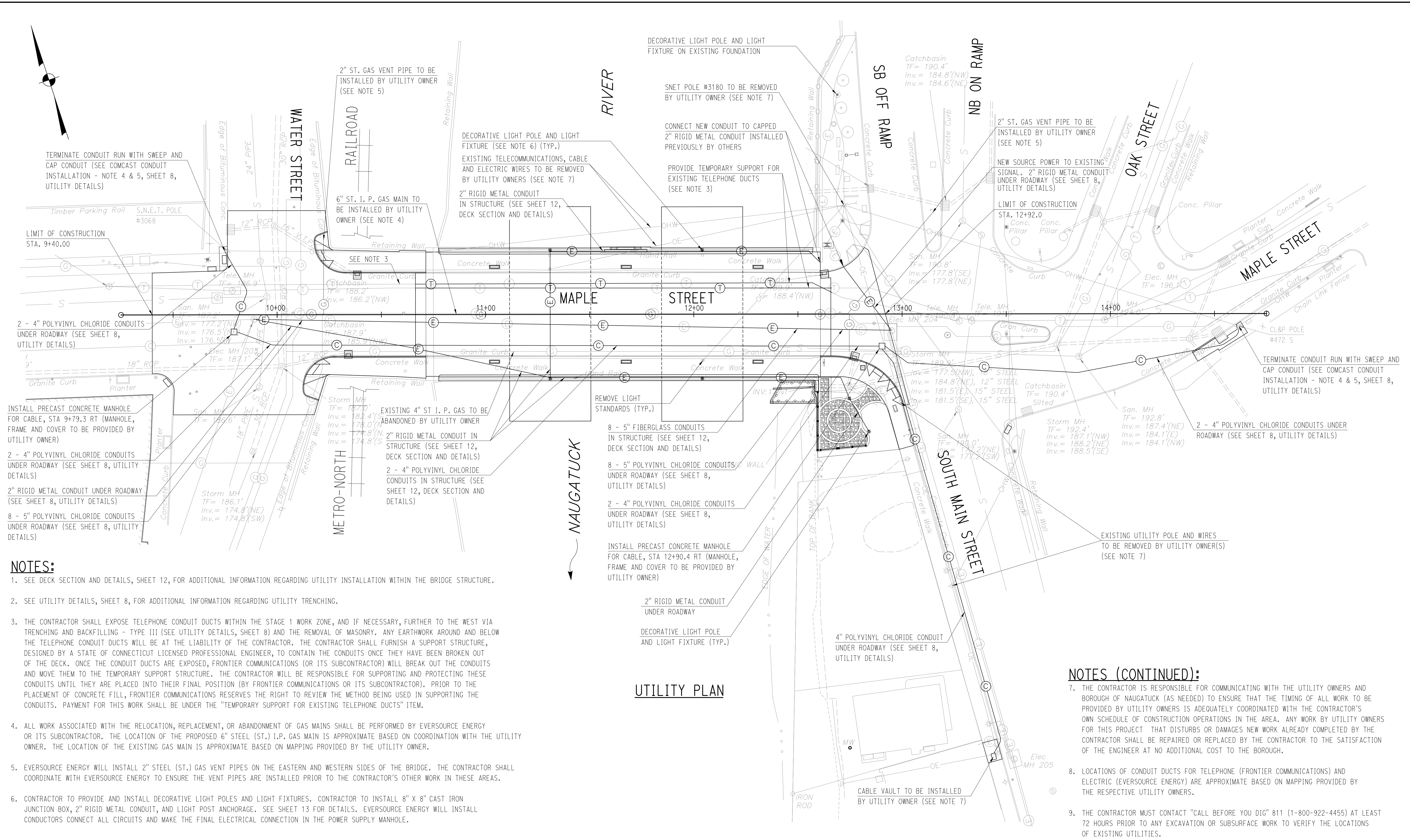
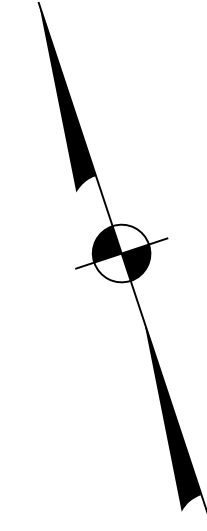
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 SCALE 1"=20'  
 Plotted Date: 1/7/2016

**BOROUGH OF NAUGATUCK**  
 DEPARTMENT OF PUBLIC WORKS  
 SIGNATURE/BLOCK:

PROJECT TITLE:  
**MAPLE STREET OVER NAUGATUCK RIVER**  
 TOWN:  
**NAUGATUCK**  
 PROJECT NO.  
**9087-4000**  
 DRAWING NO.  
**SIGNING AND STRIPING PLAN**  
 SHEET NO.  
**6 of 27**

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**NOTES:**

- SEE DECK SECTION AND DETAILS, SHEET 12, FOR ADDITIONAL INFORMATION REGARDING UTILITY INSTALLATION WITHIN THE BRIDGE STRUCTURE.
- SEE UTILITY DETAILS, SHEET 8, FOR ADDITIONAL INFORMATION REGARDING UTILITY TRENCHING.
- THE CONTRACTOR SHALL EXPOSE 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 8) AND THE REMOVAL OF MASONRY. ANY EARTHWORK AROUND AND BELOW THE TELEPHONE CONDUIT DUCTS WILL BE AT THE LIABILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL FURNISH A SUPPORT STRUCTURE, DESIGNED BY A STATE OF CONNECTICUT LICENSED PROFESSIONAL ENGINEER, TO CONTAIN THE CONDUITS ONCE THEY HAVE BEEN BROKEN OUT OF THE DECK. ONCE THE CONDUIT DUCTS ARE EXPOSED, FRONTIER COMMUNICATIONS (OR ITS SUBCONTRACTOR) WILL BREAK OUT THE CONDUITS AND MOVE THEM TO THE TEMPORARY SUPPORT STRUCTURE. THE CONTRACTOR WILL BE RESPONSIBLE FOR SUPPORTING AND PROTECTING THESE CONDUITS UNTIL THEY ARE PLACED INTO THEIR FINAL POSITION (BY FRONTIER COMMUNICATIONS OR ITS SUBCONTRACTOR). PRIOR TO THE PLACEMENT OF CONCRETE FILL, FRONTIER COMMUNICATIONS 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.
- ALL WORK ASSOCIATED WITH THE RELOCATION, REPLACEMENT, OR ABANDONMENT OF GAS MAINS SHALL BE PERFORMED BY EVERSOURCE ENERGY OR ITS SUBCONTRACTOR. THE LOCATION OF THE PROPOSED 6" STEEL (ST.) I.P. GAS MAIN IS APPROXIMATE BASED ON COORDINATION WITH THE UTILITY OWNER. THE LOCATION OF THE EXISTING GAS MAIN IS APPROXIMATE BASED ON MAPPING PROVIDED BY THE UTILITY OWNER.
- EVERSOURCE ENERGY WILL INSTALL 2" STEEL (ST.) GAS VENT PIPES ON THE EASTERN AND WESTERN SIDES OF THE BRIDGE. THE CONTRACTOR SHALL COORDINATE WITH EVERSOURCE ENERGY TO ENSURE THE VENT PIPES ARE INSTALLED PRIOR TO THE CONTRACTOR'S OTHER WORK IN THESE AREAS.
- CONTRACTOR TO PROVIDE AND INSTALL DECORATIVE LIGHT POLES AND LIGHT FIXTURES. CONTRACTOR TO INSTALL 8" X 8" CAST IRON JUNCTION BOX, 2" RIGID METAL CONDUIT, AND LIGHT POST ANCHORAGE. SEE SHEET 13 FOR DETAILS. EVERSOURCE ENERGY WILL INSTALL CONDUCTORS CONNECT ALL CIRCUITS AND MAKE THE FINAL ELECTRICAL CONNECTION IN THE POWER SUPPLY MANHOLE.

**UTILITY PLAN**

**NOTES (CONTINUED):**

- THE CONTRACTOR IS RESPONSIBLE FOR COMMUNICATING WITH THE UTILITY OWNERS AND BOROUGH OF NAUGATUCK (AS NEEDED) TO ENSURE THAT THE TIMING OF ALL WORK TO BE PROVIDED BY UTILITY OWNERS IS ADEQUATELY COORDINATED WITH THE CONTRACTOR'S OWN SCHEDULE OF CONSTRUCTION OPERATIONS IN THE AREA. ANY WORK BY UTILITY OWNERS FOR THIS PROJECT THAT DISTURBS OR DAMAGES NEW WORK ALREADY COMPLETED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE BOROUGH.
- LOCATIONS OF CONDUIT DUCTS FOR TELEPHONE (FRONTIER COMMUNICATIONS) AND ELECTRIC (EVERSOURCE ENERGY) ARE APPROXIMATE BASED ON MAPPING PROVIDED BY THE RESPECTIVE UTILITY OWNERS.
- THE CONTRACTOR MUST CONTACT "CALL BEFORE YOU DIG" 811 (1-800-922-4455) AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION OR SUBSURFACE WORK TO VERIFY THE LOCATIONS OF EXISTING UTILITIES.

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 SCALE 1"=20'

**BOROUGH OF NAUGATUCK**  
 DEPARTMENT OF PUBLIC WORKS

SIGNATURE/BLOCK: **CHA**  
 CONN. PROFESSIONAL ENGINEER  
 2130 Silas Deane Highway, Suite 212, Rocky Hill, CT 06067-2130  
 (860) 251-4007 www.doughhaas.com

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

TOWN:  
**NAUGATUCK**

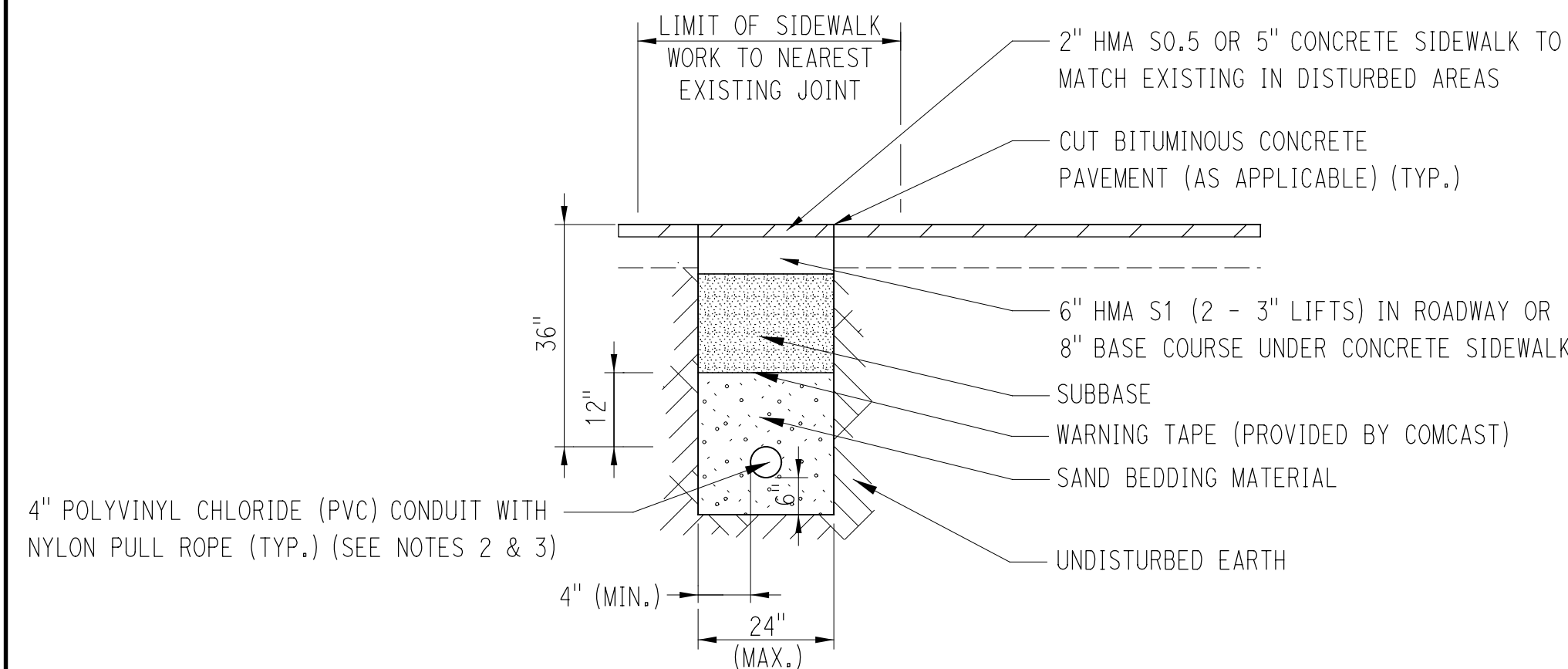
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PROJECT NO.  
**9087-4000**

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SHEET NO.  
**7 of 27**

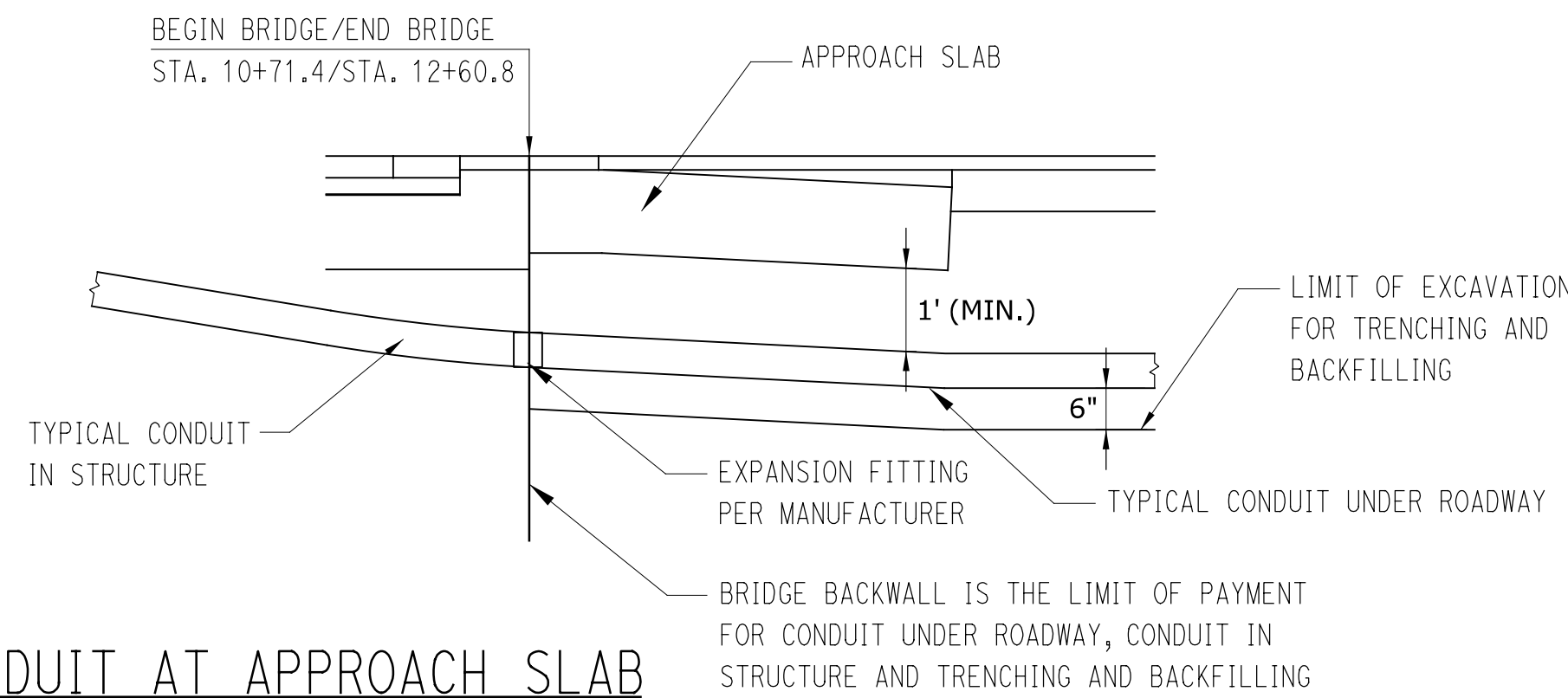




**4" POLYVINYL CHLORIDE CONDUITS UNDER ROADWAY**

**COMCAST CONDUIT INSTALLATION NOTES:**

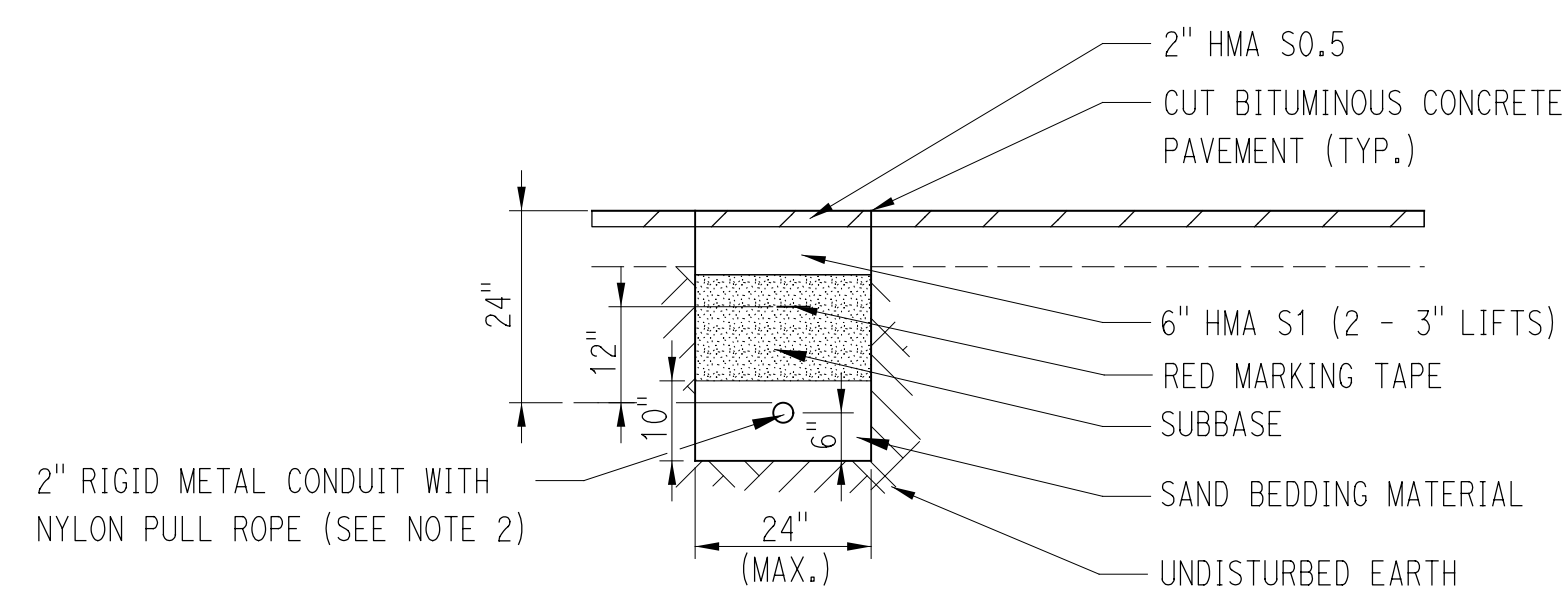
1. COMCAST CONDUIT RUNS MAY REQUIRE CROSSING TELEPHONE CONDUIT DUCTS, SANITARY AND STORM SEWER LINES, ELECTRICAL CONDUIT DUCTS, GAS MAINS AND OTHER UTILITIES. A MINIMUM OF 6 INCHES OF SEPARATION SHALL BE PROVIDED BY VARYING THE DEPTH OF THE COMCAST CONDUITS OR OTHER PROPOSED CONDUITS. THE WORK AND MATERIALS USED IN CONSTRUCTING THESE CROSSINGS SHALL BE INCLUDED IN THE "4" POLYVINYL CHLORIDE CONDUIT UNDER ROADWAY" ITEM.
2. WHEN MORE THAN ONE CONDUIT RUN IS PROVIDED IN A SINGLE TRENCH, CONDUITS SHALL BE ALIGNED SIDE BY SIDE AND SEPARATED BY A MINIMUM OF 4 INCHES.
3. 4" PVC CONDUIT SHALL BE PAID UNDER THE "4" POLYVINYL CHLORIDE CONDUIT UNDER ROADWAY" ITEM. ALL INCIDENTAL MATERIALS RELATED TO CONDUIT (FITTINGS, SWEEPS, PULL ROPE, ETC.) SHALL BE INCLUDED IN THE "4" POLYVINYL CHLORIDE CONDUIT UNDER ROADWAY" ITEM. THIS WORK SHALL CONFORM TO THE SPECIAL PROVISIONS.
4. CUTTING OF BITUMINOUS CONCRETE PAVEMENT, REMOVAL OF PAVEMENT/SIDEWALK, TRENCH EXCAVATION, PLACEMENT OF SAND BEDDING MATERIAL, INSTALLATION OF WARNING TAPE, AND PLACEMENT OF SUBBASE 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. HMA S0.5, HMA S1, 5" CONCRETE SIDEWALK (WITH 8" BASE COURSE), AND REMOVAL AND RESETTING OF GRANITE STONE CURBING, AND CONCRETE CURBING ITEMS, AS REQUIRED FOR CONDUIT INSTALLATION, WILL BE PAID UNDER THEIR RESPECTIVE CONTRACT PAY ITEMS. ANY OTHER WORK THAT IS REQUIRED TO REPAIR DISTURBED AREAS FOR CONDUIT INSTALLATION SHALL BE AS DIRECTED BY THE ENGINEER AND PAYMENT WILL BE INCIDENTAL TO OTHER CONTRACT ITEMS.
5. CONDUIT SHALL BE BROUGHT ABOVE GROUND AND CAPPED AT SNET POLE #3068 AND CL&P POLE #472S VIA 24" PVC SWEEPS, INCIDENTAL TO THE "4" POLYVINYL CHLORIDE CONDUIT UNDER ROADWAY" ITEM. CONDUITS SHALL BE CAPPED AT ALL MANHOLE LOCATIONS; COMCAST TO MAKE FINAL CONNECTIONS.
6. ADJUST ROUTING OF CONDUIT BETWEEN PROPOSED COMCAST MANHOLE AT STA. 12+90 RT AND THE PROPOSED COMCAST VAULT ON SOUTH MAIN STREET TO AVOID EXISTING UTILITIES. THE CONTRACTOR SHALL EXERCISE CARE TO AVOID IMPACTS TO ADJACENT UTILITIES AND TO MINIMIZE IMPACTS AND DISTURBANCE OF THE EXISTING ROADWAY SURFACE, SIDEWALK AND CURBING. CONDUIT ROUTING IS TO BE APPROVED BY THE ENGINEER.



**CONDUIT AT APPROACH SLAB**

**CONDUIT AT APPROACH SLAB NOTES**

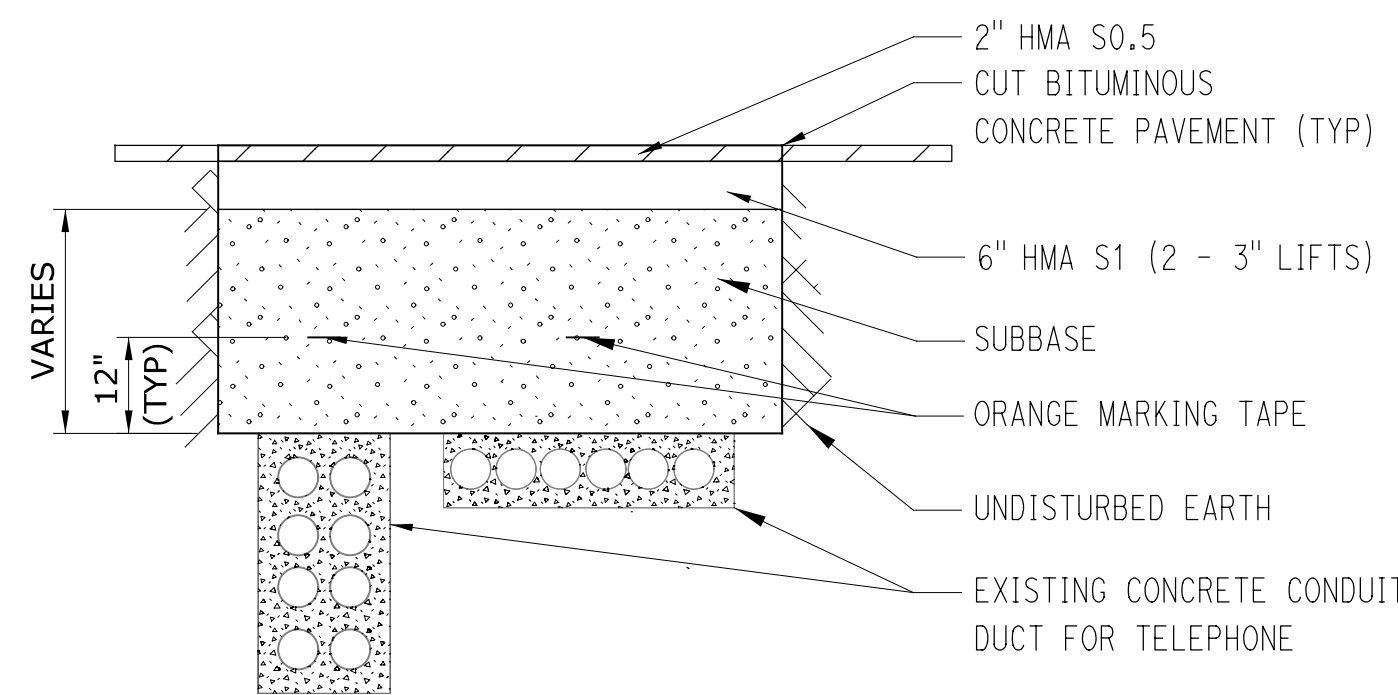
1. ALL CONDUIT FITTINGS AND JOINTS SHALL BE APPROVED BY THE CONDUIT MANUFACTURER FOR USE WITH THE TYPE OF CONDUIT. THIS WORK SHALL CONFORM TO THE SPECIAL PROVISIONS.



**2" RIGID METAL CONDUIT UNDER ROADWAY**

**RIGID METAL CONDUIT INSTALLATION NOTES:**

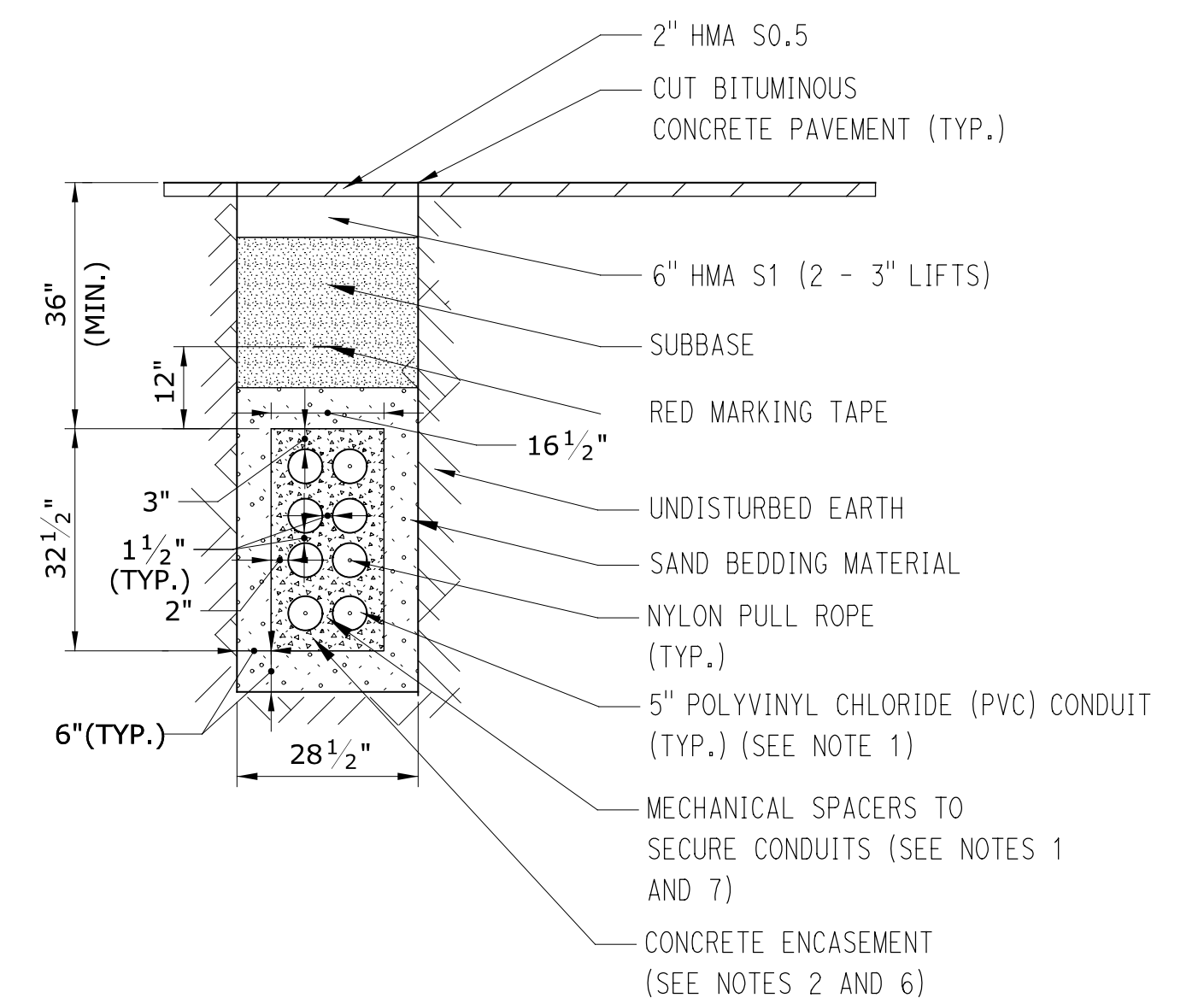
1. RIGID METAL CONDUIT RUNS MAY REQUIRE CROSSING TELEPHONE CONDUIT DUCTS, SANITARY AND STORM SEWER LINES, ELECTRICAL CONDUIT DUCTS, GAS MAINS AND OTHER UTILITIES. A MINIMUM OF 6 INCHES OF SEPARATION SHALL BE PROVIDED BY VARYING THE DEPTH OF THE RIGID METAL CONDUIT OR OTHER PROPOSED CONDUITS. THE WORK AND MATERIALS USED IN CONSTRUCTING THESE CROSSINGS SHALL BE INCLUDED IN THE "2" RIGID METAL CONDUIT UNDER ROADWAY" ITEM.
2. 2" RIGID METAL CONDUIT SHALL BE PAID UNDER THE "2" RIGID METAL CONDUIT UNDER ROADWAY" ITEM. ALL INCIDENTAL MATERIALS RELATED TO CONDUIT (FITTINGS, SWEEPS, PULL ROPE, ETC.) SHALL BE INCLUDED IN THIS ITEM. THIS WORK SHALL CONFORM TO THE SPECIAL PROVISIONS.
3. CUTTING OF BITUMINOUS CONCRETE PAVEMENT, TRENCH EXCAVATION, PLACEMENT OF SAND BEDDING MATERIAL, INSTALLATION OF MARKING TAPE, AND PLACEMENT OF SUBBASE FOR THE INSTALLATION OF 2" RIGID METAL CONDUIT UNDER ROADWAY SHALL BE PAID UNDER THE "TRENCHING AND BACKFILLING, TYPE I" ITEM. THIS WORK SHALL CONFORM TO THE SPECIAL PROVISIONS.
4. HMA S0.5, HMA S1, SIDEWALK AND CURBING ITEMS, AS REQUIRED FOR CONDUIT INSTALLATION, WILL BE PAID UNDER THEIR RESPECTIVE CONTRACT PAY ITEMS. ANY OTHER WORK THAT IS REQUIRED TO FACILITATE CONDUIT INSTALLATION SHALL BE AS DIRECTED BY THE ENGINEER AND PAYMENT WILL BE INCIDENTAL TO OTHER CONTRACT ITEMS.
5. THE CONTRACTOR SHALL EXERCISE CARE TO AVOID INCIDENTAL IMPACTS TO ADJACENT UTILITIES AND TO MINIMIZE IMPACTS AND DISTURBANCE OF THE EXISTING ROADWAY SURFACE, SIDEWALKS, AND CURBING. CONDUIT ROUTING AND LIMITS OF EXCAVATION FOR THE PURPOSES OF PAYMENT ARE TO BE APPROVED BY THE ENGINEER.
6. CONDUIT SHALL BE INSTALLED TO AN AREA APPROXIMATELY 2 FEET FROM ELEC. MANHOLES #203 AND #204 AND CAPPED. CONDUIT ENTRY INTO THE MANHOLES SHALL BE PERFORMED BY EVERSOURCE ENERGY (OR ITS SUBCONTRACTOR). THE CONTRACTOR SHALL COORDINATE THIS WORK WITH EVERSOURCE ENERGY PRIOR TO BACKFILLING. ALL COORDINATION SHALL BE CONSIDERED INCIDENTAL TO THE "2" RIGID METAL CONDUIT UNDER ROADWAY" ITEM. EVERSOURCE ENERGY SHALL PULL ELECTRICAL CABLES THROUGH CONDUIT FOLLOWING ACCEPTANCE OF CONDUIT INSTALLATION.



**TRENCHING AND BACKFILLING, TYPE III**

**TRENCHING AND BACKFILLING, TYPE III NOTES:**

1. 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.
2. 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.
3. CUTTING OF BITUMINOUS CONCRETE PAVEMENT, TRENCH EXCAVATION, INSTALLATION OF MARKING TAPE, AND PLACEMENT OF SUBBASE SHALL BE PAID UNDER THE "TRENCHING AND BACKFILLING, TYPE III" ITEM. THIS WORK SHALL CONFORM TO THE SPECIAL PROVISIONS. HMA S0.5 AND HMA S1 FOR CLOSING THE TRENCH SHALL BE PAID UNDER THEIR RESPECTIVE CONTRACT PAY ITEMS.
4. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH FRONTIER COMMUNICATIONS. COORDINATION WITH FRONTIER SHALL BE CONSIDERED INCIDENTAL TO THE "TEMPORARY SUPPORT FOR EXISTING TELEPHONE DUCTS" ITEM. FRONTIER (OR ITS SUBCONTRACTOR) WILL BREAK OUT AND MOVE THE CONDUITS FOLLOWING THE TRENCH EXCAVATION WORK. THE CONTRACTOR SHALL BACKFILL THE TRENCH AFTER FRONTIER COMMUNICATIONS RESTORES THE CONDUITS IN THEIR FINAL LOCATION.



**8 - 5" POLYVINYL CHLORIDE CONDUITS UNDER ROADWAY**

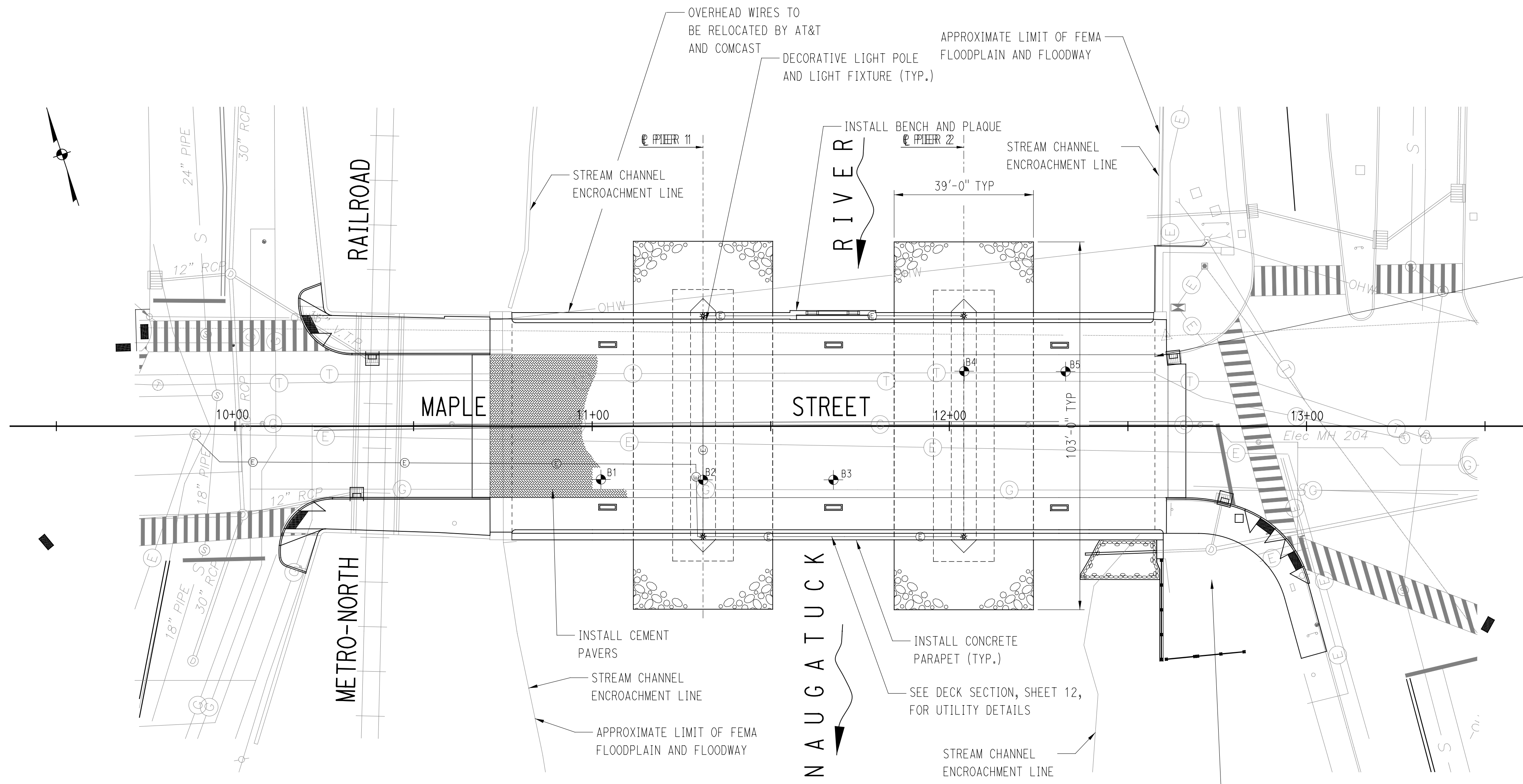
**EVERSOURCE ENERGY CONDUIT INSTALLATION NOTES:**

1. 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 EVERSOURCE ENERGY AND THE ENGINEER PRIOR TO CONSTRUCTION.
2. CUTTING OF BITUMINOUS CONCRETE PAVEMENT, TRENCH EXCAVATION, PLACEMENT OF SAND BEDDING MATERIAL AND CONCRETE ENCASEMENT, INSTALLATION OF MARKING TAPE, AND PLACEMENT OF SUBBASE 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.
3. HMA S0.5 AND HMA S1 FOR CONDUIT INSTALLATION WILL BE PAID UNDER THEIR RESPECTIVE CONTRACT PAY ITEMS. ANY OTHER WORK THAT IS REQUIRED TO FACILITATE CONDUIT INSTALLATION SHALL BE AS DIRECTED BY THE ENGINEER AND PAYMENT WILL BE INCIDENTAL TO OTHER CONTRACT ITEMS.
4. CONDUIT SHALL BE INSTALLED TO AN AREA APPROXIMATELY 2 FEET FROM ELEC. MANHOLES #203 AND #204 AND CAPPED. CONDUIT ENTRY INTO MANHOLES SHALL BE PERFORMED BY EVERSOURCE ENERGY (OR ITS SUBCONTRACTOR). THE CONTRACTOR SHALL COORDINATE THIS WORK WITH EVERSOURCE ENERGY PRIOR TO BACKFILLING. COORDINATION SHALL BE CONSIDERED INCIDENTAL TO THE "5" POLYVINYL CHLORIDE CONDUIT UNDER ROADWAY" ITEM. EVERSOURCE ENERGY SHALL PULL ELECTRICAL CABLES THROUGH THE CONDUITS FOLLOWING ACCEPTANCE OF THE CONDUIT INSTALLATION.
5. THE VERTICAL ALIGNMENT OF THE CONDUIT DUCT IS TO BE VARIED AT THE DISCRETION OF THE ENGINEER TO AVOID GAS MAINS, SANITARY AND STORM SEWER LINES, AND OTHER UTILITIES. WHERE POSSIBLE, 1 FOOT OF VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN UTILITIES; UNDER CONSTRAINED CONDITIONS, A MINIMUM OF 6 INCHES OF VERTICAL SEPARATION SHALL BE PROVIDED.
6. CONCRETE FOR ENCASEMENT 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.
7. 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 INSTALLED. SPACERS SHALL BE INCIDENTAL TO THE "5" POLYVINYL CHLORIDE CONDUIT UNDER ROADWAY" ITEM.

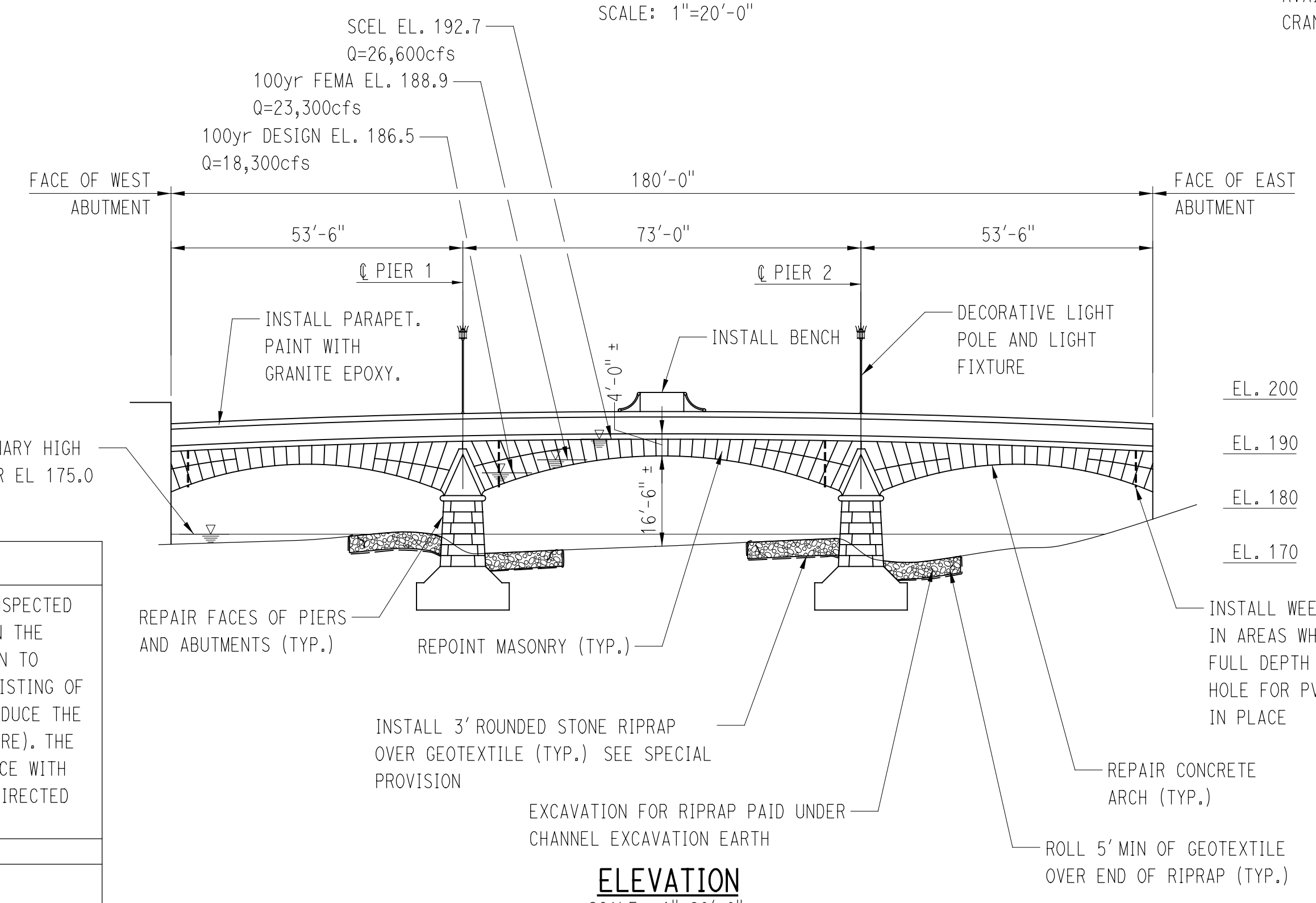
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 1/7/2016

DESIGNER/DRAFTER: <b>JSP</b>	<b>BOROUGH OF NAUGATUCK</b> DEPARTMENT OF PUBLIC WORKS	<b>CHA</b> <small>CONCRETE HARBOUR &amp; ASSOCIATES LLP</small> <small>2130 Salem Avenue Highway, Suite 212, Rocky Hill, CT 06067-2539</small> <small>March 2007 (2014) 007 - www.chaengineers.com</small>	PROJECT TITLE: <b>MAPLE STREET OVER NAUGATUCK RIVER</b>	TOWN: <b>NAUGATUCK</b>	PROJECT NO. <b>9087-4000</b>
CHECKED BY: <b>RJF</b>					
SCALE AS NOTED				DRAWING TITLE: <b>UTILITY DETAILS</b>	SHEET NO. <b>8 of 27</b>
REV. DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 1/7/2016	Filename: V:\Projects\RCT16319 Maple Street\CAD\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 (2015), AND SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS:  
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS (AASHTO-2014), 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.

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**  
CONNDOT'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 CONNDOT'S MANAGER OF BRIDGE SAFETY AND EVALUATION  
COMPONENT OR DETAIL | STRUCTURE SHEET REFERENCE  
NO SPECIAL INSPECTION OF THIS STRUCTURE IS REQUIRED

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

BOROUGH OF NAUGATUCK  
DEPARTMENT OF PUBLIC WORKS

Signature/Block: [Signature]

CHA  
COURTNEY HARRISON & ASSOCIATES LLP  
2110 State Street, Suite 212, Rocky Hill, CT 06067-2538  
Tel: (860) 251-4007 | www.cha-naugatuck.com

PROFESSIONAL ENGINEER  
STATE OF CONNECTICUT  
No. 7875  
March 2015

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

TOWN:  
**NAUGATUCK**

DRAWING TITLE:  
**BRIDGE GENERAL PLAN**

PROJECT NO.  
**9087-4000**

DRAWING NO.

SHEET NO.  
**9 of 27**




DEPTH IN FEET		STRATA CHANGE AND DESCRIPTION	CORE RUN NO.	RECOVERY/ R Q D	NOTES	FIELD CLASSIFICATION
0.10 ft						Pavement
0.60 ft						Filler Concrete
0.98 ft	S1	2.29	100			Porous Concrete
2.85 ft						Fine Aggregate Concrete
						BOTTOM OF DECK AT ELEVATION 188.35 FT
5						
10						
15						
20						
25						
BORING NO. B1						
FIELD HARDNESS		WEATHERING	BEDDING THICKNESS:	FRACTURE SPACING:	R Q D	
V. HARD	- KNIFE CANT SCRATCH	FRESH	MASSIVE	> 6"	> 80%	EXCELLENT
HARD	- SCRATCHES DIFFICULTLY	SLIGHT	THICK	4" - 6"	75 - 90%	GOOD
MED. HARD	- SCRATCHES EASILY	MODERATE	MEDIUM	2" - 4"	50 - 75%	FAIR
SOFT	- GROOVES	HIGH	THIN	< 2"	25 - 50%	POOR
V. SOFT	- CARVES	COMPLETE			< 25%	VERY POOR



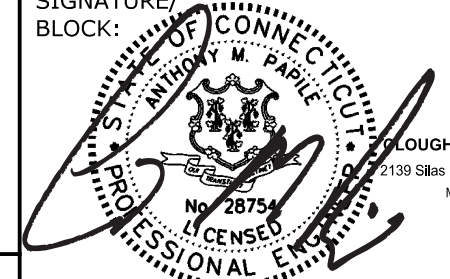
DEPTH IN FEET		STRATA CHANGE AND DESCRIPTION	CORE RUN NO.	RECOVERY/ R Q D	NOTES	FIELD CLASSIFICATION
0.13 ft						Pavement
0.58 ft						Concrete Fill
0.60 ft						Bit. Waterproofing
3.60 ft						Large Aggregate Concrete
5					Possibly arch	
5.10 ft	S1	10	100			Smaller Aggregate Concrete
5.39 ft						Light Plaster Type Material
10						
10.6 ft						Small Aggregate Concrete
11.0 ft						Cement Mortar
15						
16.6 ft	S2	10	100			Large Aggregate Concrete
						Plaster
20					Discontinuity, possibly end of footing and start of sub-footing	
25						
29.6 ft	S3	9.0	100			Large Aggregate Concrete
BORING NO. B2						
FIELD HARDNESS		WEATHERING	BEDDING THICKNESS:	FRACTURE SPACING:	R Q D	
V. HARD	- KNIFE CANT SCRATCH	FRESH	MASSIVE	> 6"	> 80%	EXCELLENT
HARD	- SCRATCHES DIFFICULTLY	SLIGHT	THICK	4" - 6"	75 - 90%	GOOD
MED. HARD	- SCRATCHES EASILY	MODERATE	MEDIUM	2" - 4"	50 - 75%	FAIR
SOFT	- GROOVES	HIGH	THIN	< 2"	25 - 50%	POOR
V. SOFT	- CARVES	COMPLETE			< 25%	VERY POOR

DEPTH IN FEET		STRATA CHANGE AND DESCRIPTION	CORE RUN NO.	RECOVERY/ R Q D	NOTES	FIELD CLASSIFICATION
0.10 ft						Pavement
0.58 ft						Filler Concrete
0.98 ft	S1	2.69	100			Porous Concrete
2.80 ft						Structural Slab (Arch)
						BOTTOM OF DECK AT ELEVATION 189.7 FT
5						
10						
15						
20						
25						
BORING NO. B3						
FIELD HARDNESS		WEATHERING	BEDDING THICKNESS:	FRACTURE SPACING:	R Q D	
V. HARD	- KNIFE CANT SCRATCH	FRESH	MASSIVE	> 6"	> 80%	EXCELLENT
HARD	- SCRATCHES DIFFICULTLY	SLIGHT	THICK	4" - 6"	75 - 90%	GOOD
MED. HARD	- SCRATCHES EASILY	MODERATE	MEDIUM	2" - 4"	50 - 75%	FAIR
SOFT	- GROOVES	HIGH	THIN	< 2"	25 - 50%	POOR
V. SOFT	- CARVES	COMPLETE			< 25%	VERY POOR

**BORING NOTES:**

- BORINGS WERE MADE BY NEW ENGLAND BORING IN AUGUST 2007.
- BORING LOCATIONS SHOWN THUS  ON BRIDGE GENERAL PLAN, SHEET 9.
- BORINGS ARE AVAILABLE AT THE TOWN HALL FOR REVIEW.

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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: <b>JSP</b> CHECKED BY: <b>RJF</b> SCALE IN FEET  SCALE: 1/4" = 1'-0"	 <b>BOROUGH OF NAUGATUCK</b> DEPARTMENT OF PUBLIC WORKS	 <b>CHA</b> CONSTRUCTION HARBOUR & ASSOCIATES LLP 2130 State Street, Suite 212, Rocky Hill, CT 06067-2038 (860) 251-4007 • www.cha-naugatuck.com	PROJECT TITLE: <b>MAPLE STREET OVER NAUGATUCK RIVER</b>	TOWN: <b>NAUGATUCK</b>	PROJECT NO. <b>9087-4000</b> DRAWING NO.
REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 1/7/2016	DRAWING TITLE: <b>BORING 1 OF 2</b>		SHEET NO. <b>10 of 27</b>			



DEPTH IN FEET		STRATA CHANGE AND DESCRIPTION	CODE RUN NO.	RECOVERY/ R Q D	NOTES	FIELD CLASSIFICATION
0.06 ft						Bit, Pavement
1.82 ft						Large Aggregate Concrete
5.23 ft	S1		10.0	100	Possibly Arch Reinforced large Honeycomb voids	Discontinuous Large Aggregate Concrete
9.23 ft 9.25 ft 9.29 ft					Possibly Footing	Small Aggregate Concrete Plaster Type Material Porous Material
22.9 ft 22.92 ft	S2		10.0	100		Large Aggregate Concrete Plaster Material
29.5 ft	S3		9.50	100	Possibly Sub-Footing Discontinuity	Large Aggregate Concrete Plaster Material
BOTTOM OF FOOTING AT ELEVATION 162.4 FT						

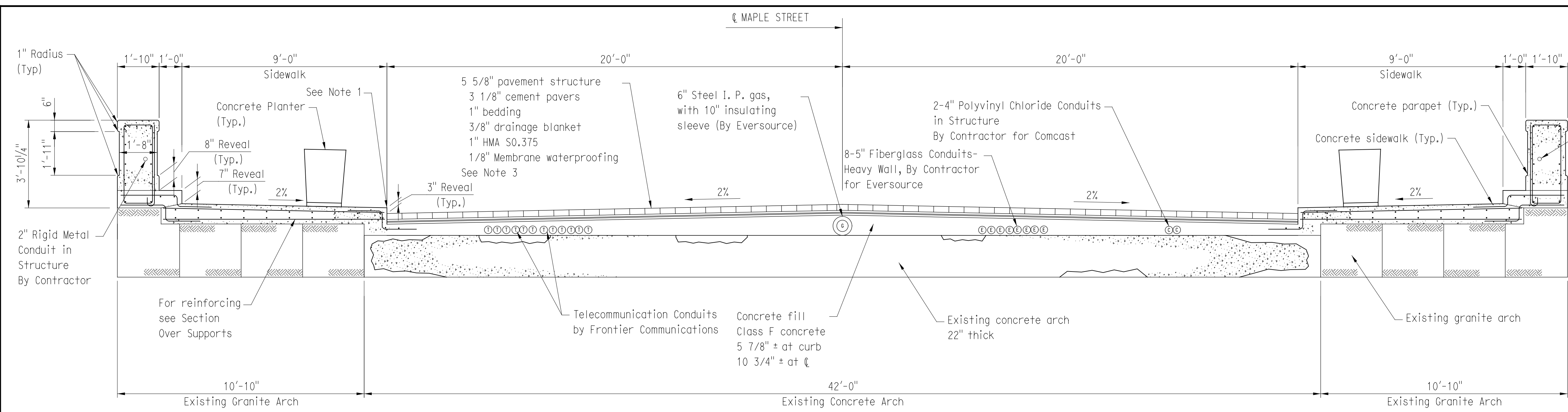
DEPTH IN FEET		STRATA CHANGE AND DESCRIPTION	CODE RUN NO.	RECOVERY/ R Q D	NOTES	FIELD CLASSIFICATION
0.13 ft 0.55 ft 0.92 ft	S1		2.29	100	Discontinuity	Pavement Filler Concrete Porous Concrete Small Aggregate Concrete
2.42 ft					Rebar encountered	BOTTOM OF CORE AT ELEVATION 188.7 FT

NOTES:  
1. FOR BORING NOTES, SEE SHEET 10.

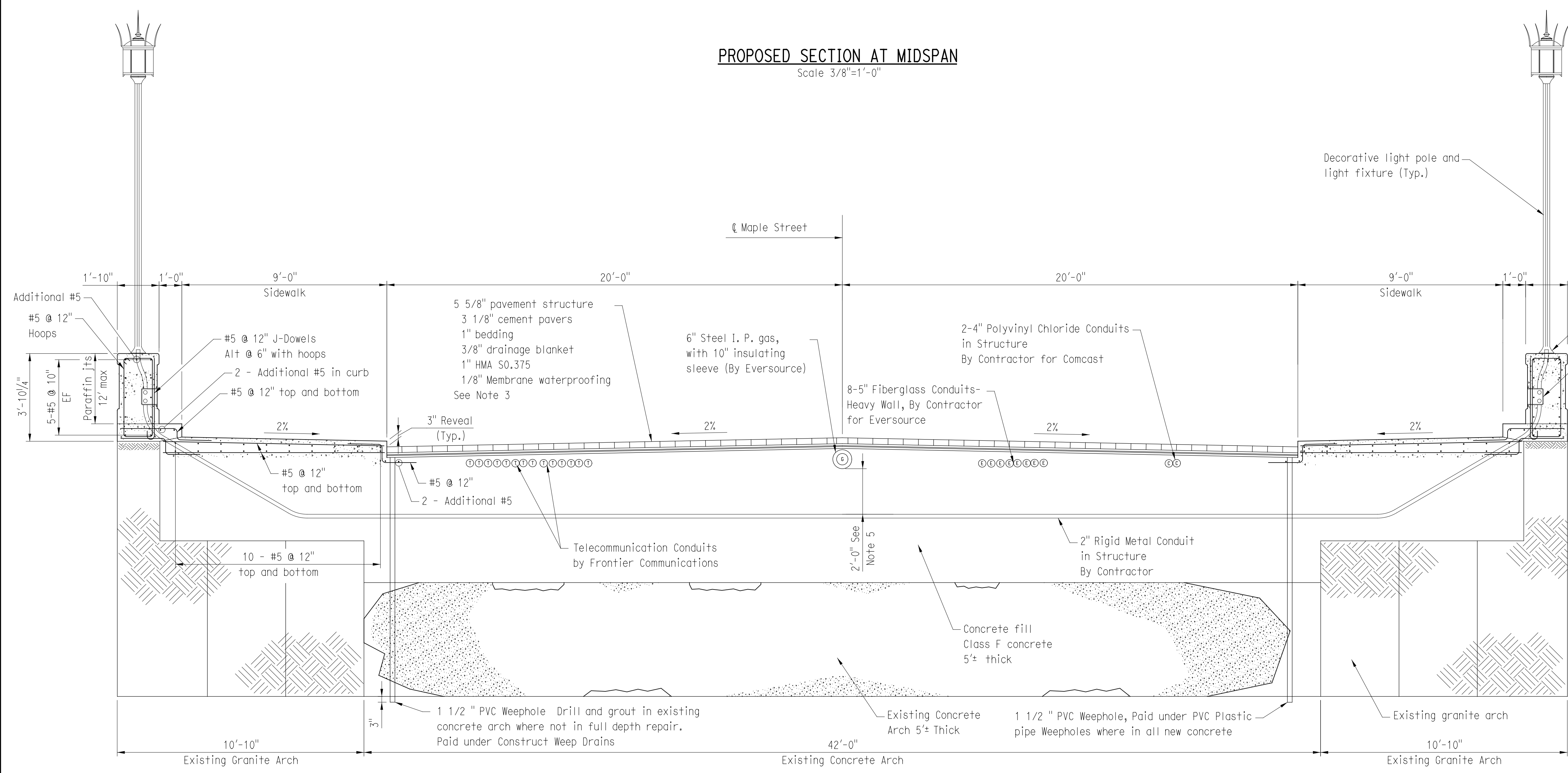
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REV. DATE <b>1/7/2016</b>	REVISION DESCRIPTION	SHEET NO. <b>11</b> of <b>27</b>	Plotted Date: 1/7/2016	Filename: V:\Projects\RCT\16319 Maple Street\CAD\Boring 2 of 2.dgn	DRAWING TITLE: <b>BORING 2 OF 2</b>	SHEET NO. <b>11</b> of <b>27</b>	





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



**PROPOSED SECTION OVER SUPPORTS**  
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 23-24 FOR CONDUIT IN STRUCTURE CONSTRUCTION DETAILS. SEE UTILITY PLAN, SHEET 7, AND UTILITY DETAILS, SHEET 8, FOR ADDITIONAL UTILITY RELOCATION DETAILS.
  3. THE CEMENT PAVERS ON THE BRIDGE INCLUDING THE PAVERS, BEDDING, AND DRAINAGE BLANKET SHALL BE PAID UNDER THE "BRICK PAVING" ITEM. THE HMA S0.375 COURSE SHALL BE COMPACTED BY A MINIMUM OF SIX PASSES OF A NON-VIRATORY STEEL ROLLER.
  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. AT THE TOWNS OPTION, LIGHTWEIGHT CONCRETE MAY BE SUBSTITUTED FOR CLASS F CONCRETE FOR FILL OVER THE ARCH.
  5. TWO FEET OF VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN THE 6" I. P. GAS MAIN (EVERSOURCE) 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.

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

**BOROUGH OF NAUGATUCK**  
 DEPARTMENT OF PUBLIC WORKS

SIGNATURE/BLOCK:  
  
**CHA**  
 CROUCH HARBOUR & ASSOCIATES LLP  
 2130 State Route 212, Rocky Hill, CT 06067-2539  
 (860) 251-4007 • www.cha-naugatuck.com

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

TOWN:  
**NAUGATUCK**

DRAWING TITLE:  
**DECK SECTIONS**

PROJECT NO.  
**9087-4000**

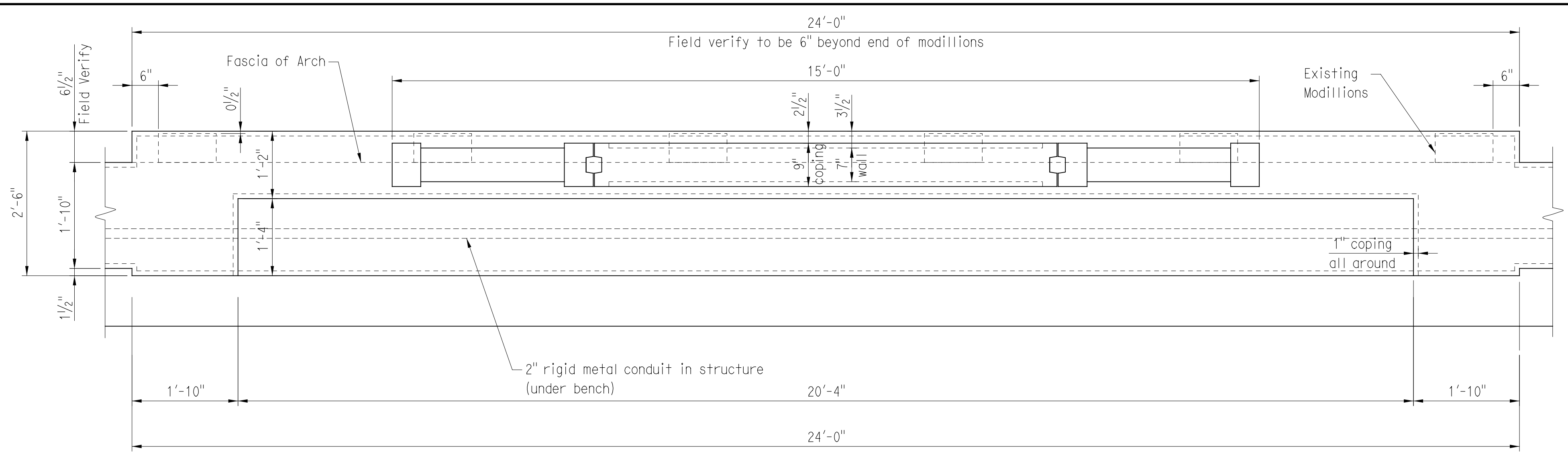
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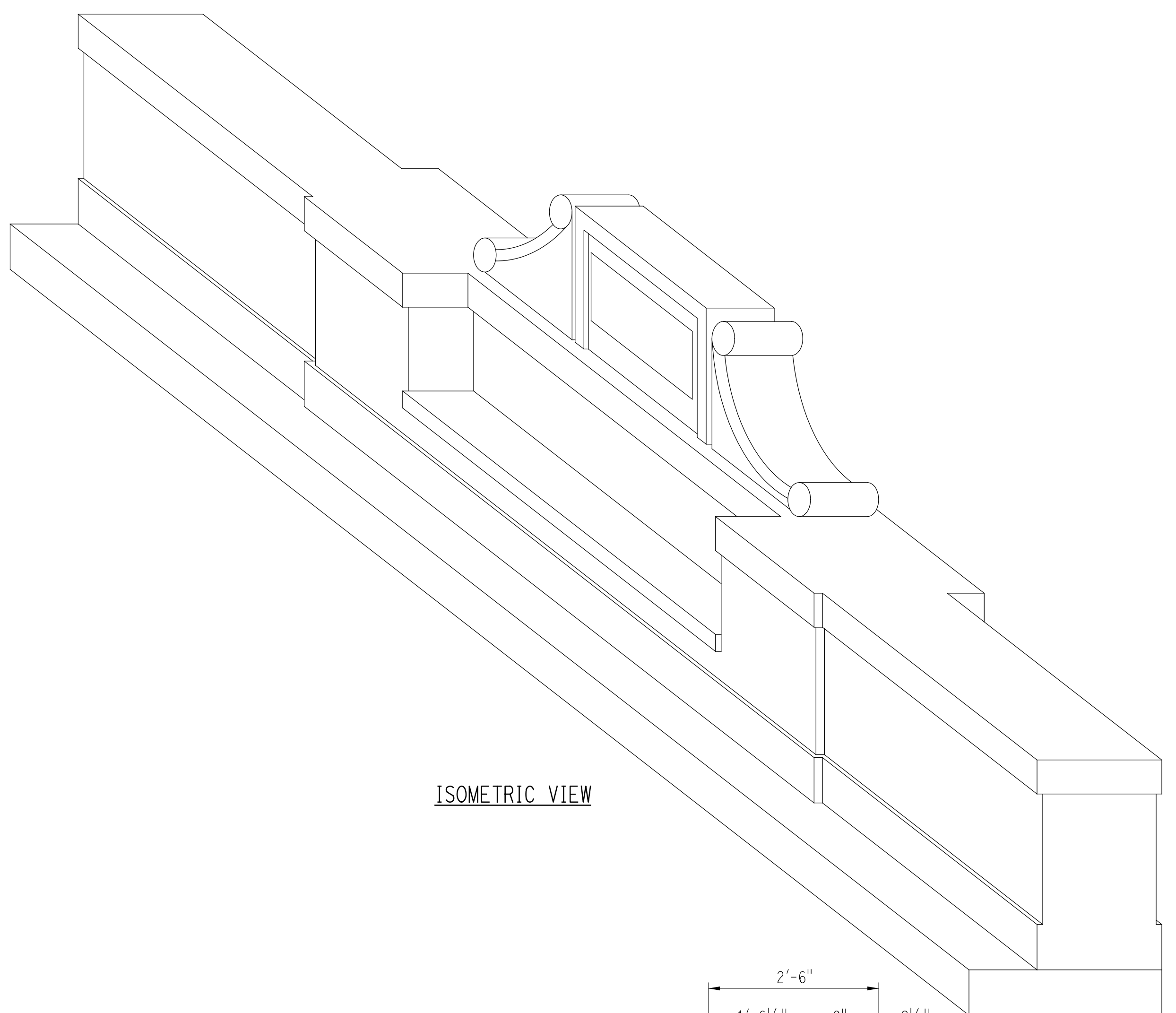
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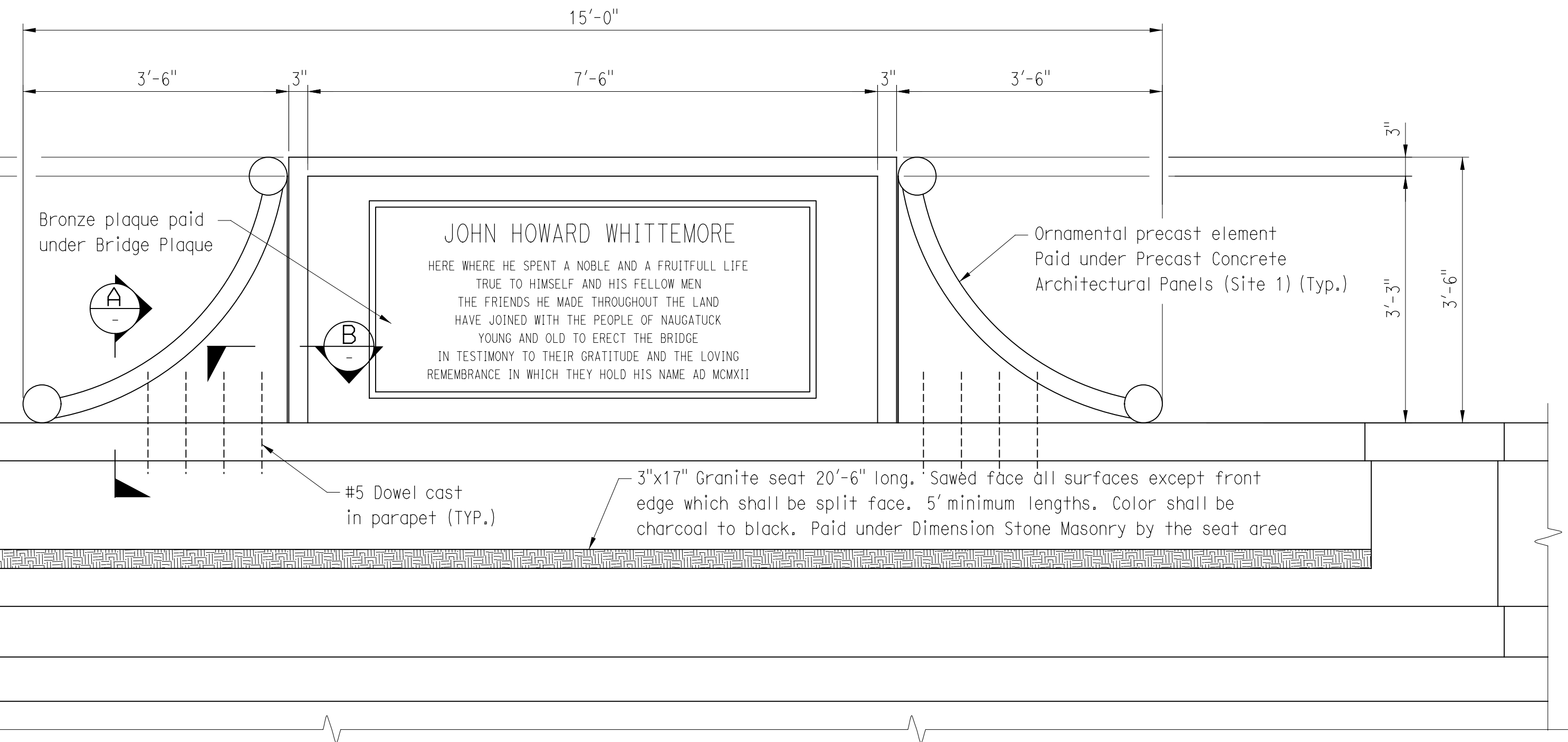




PLAN

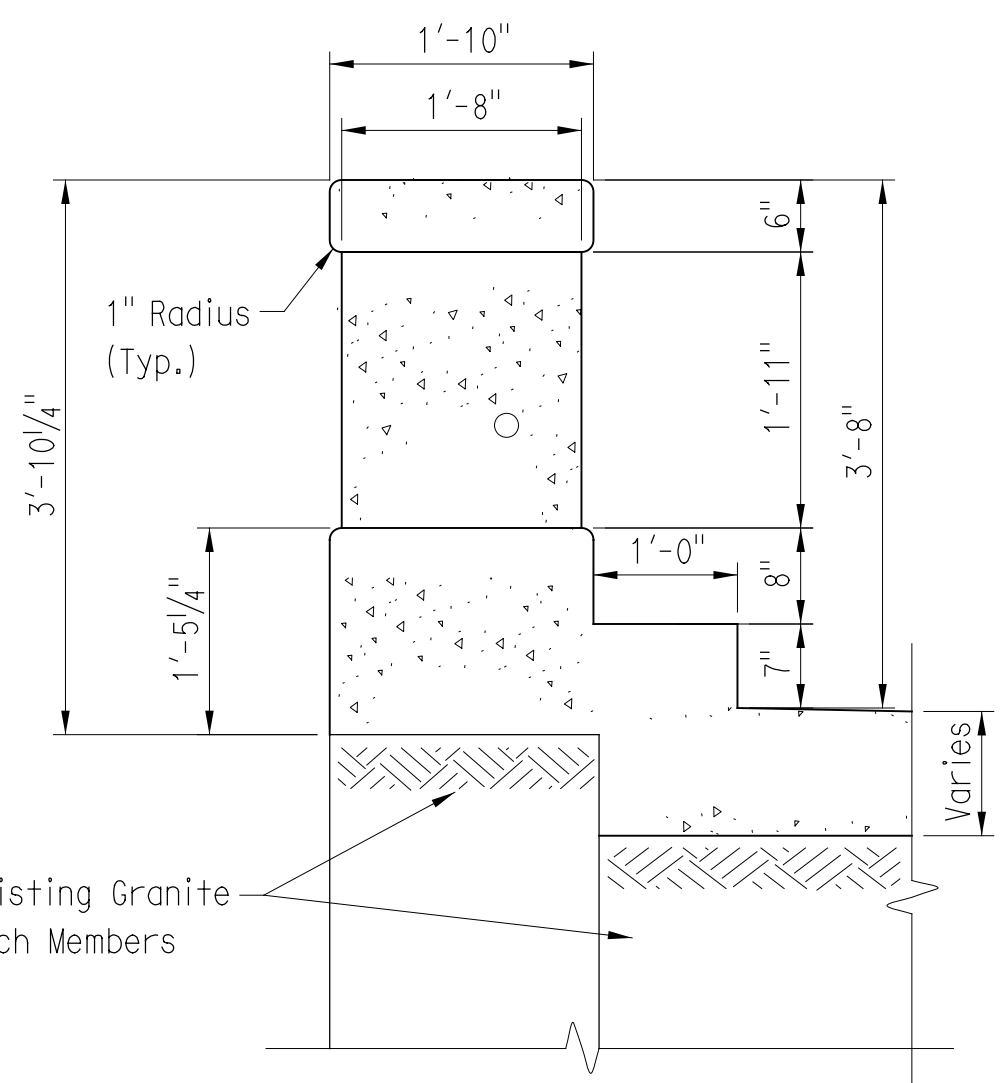


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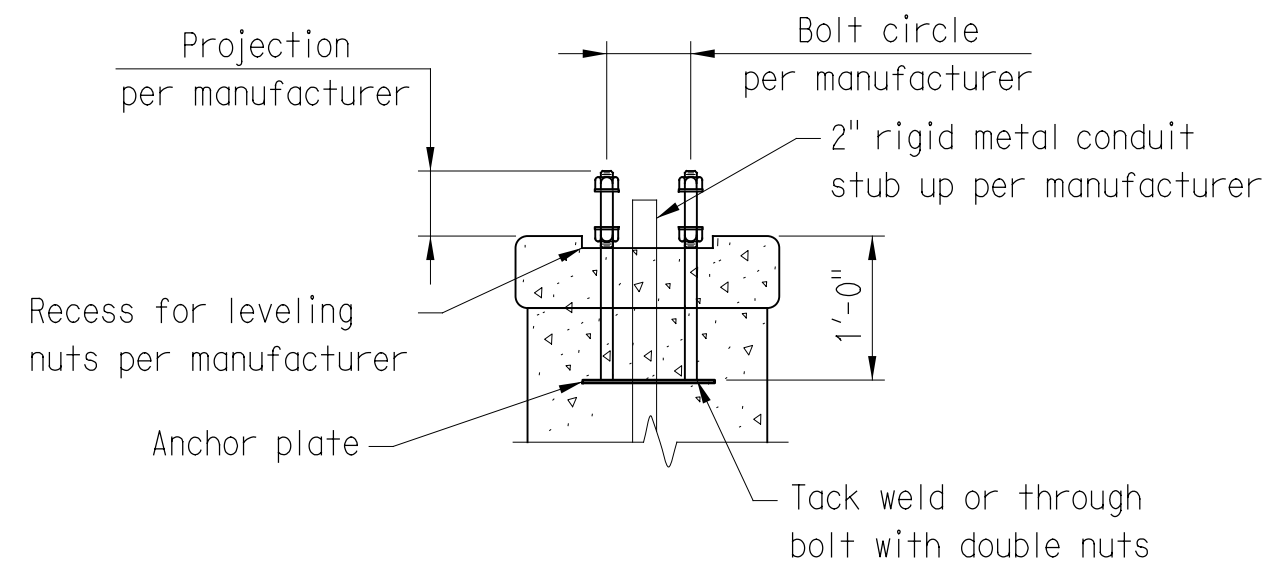


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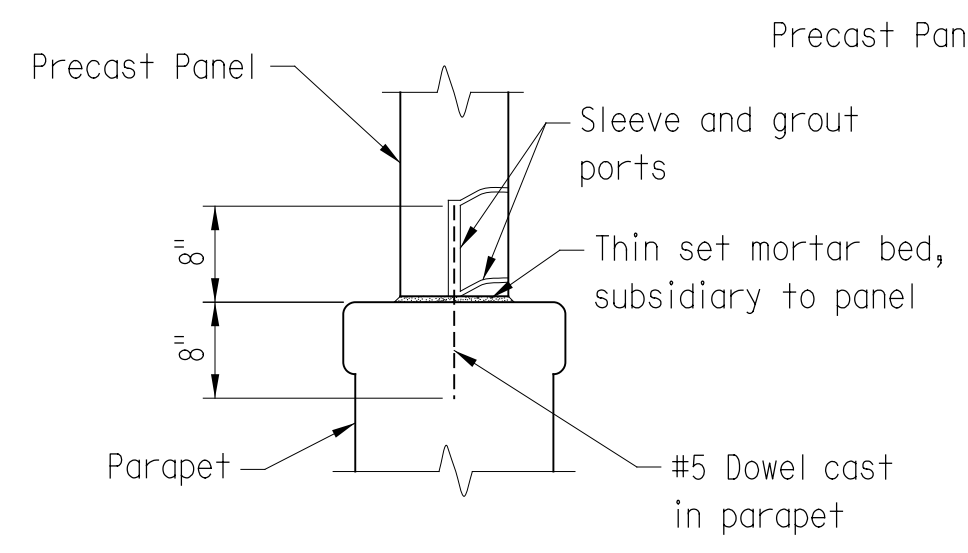
MIDSPAN BENCH DETAIL  
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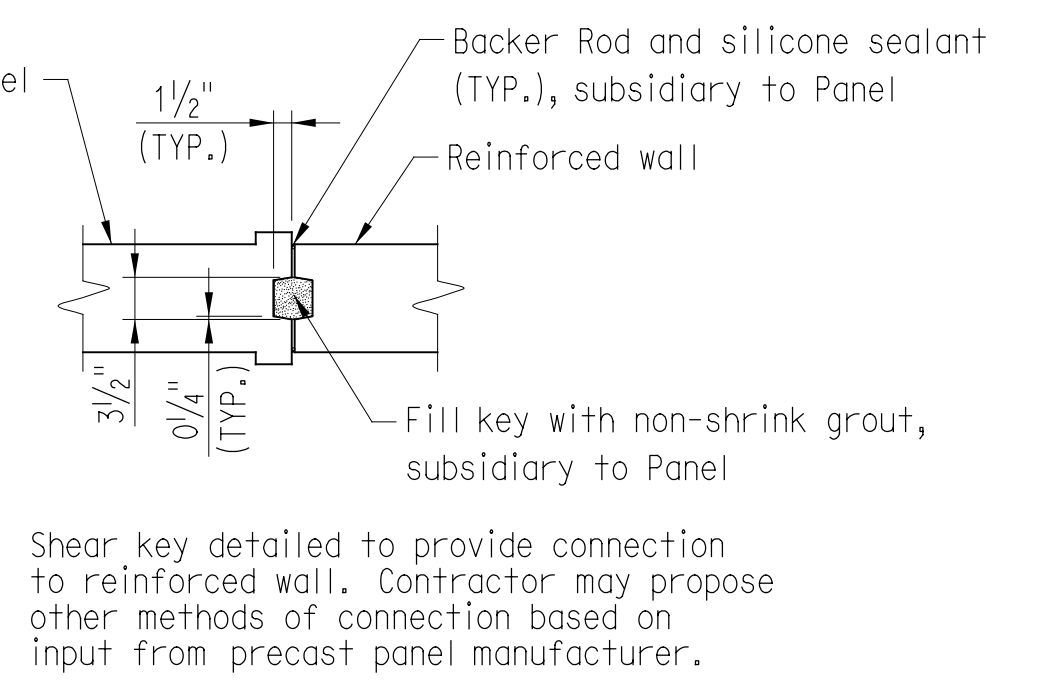
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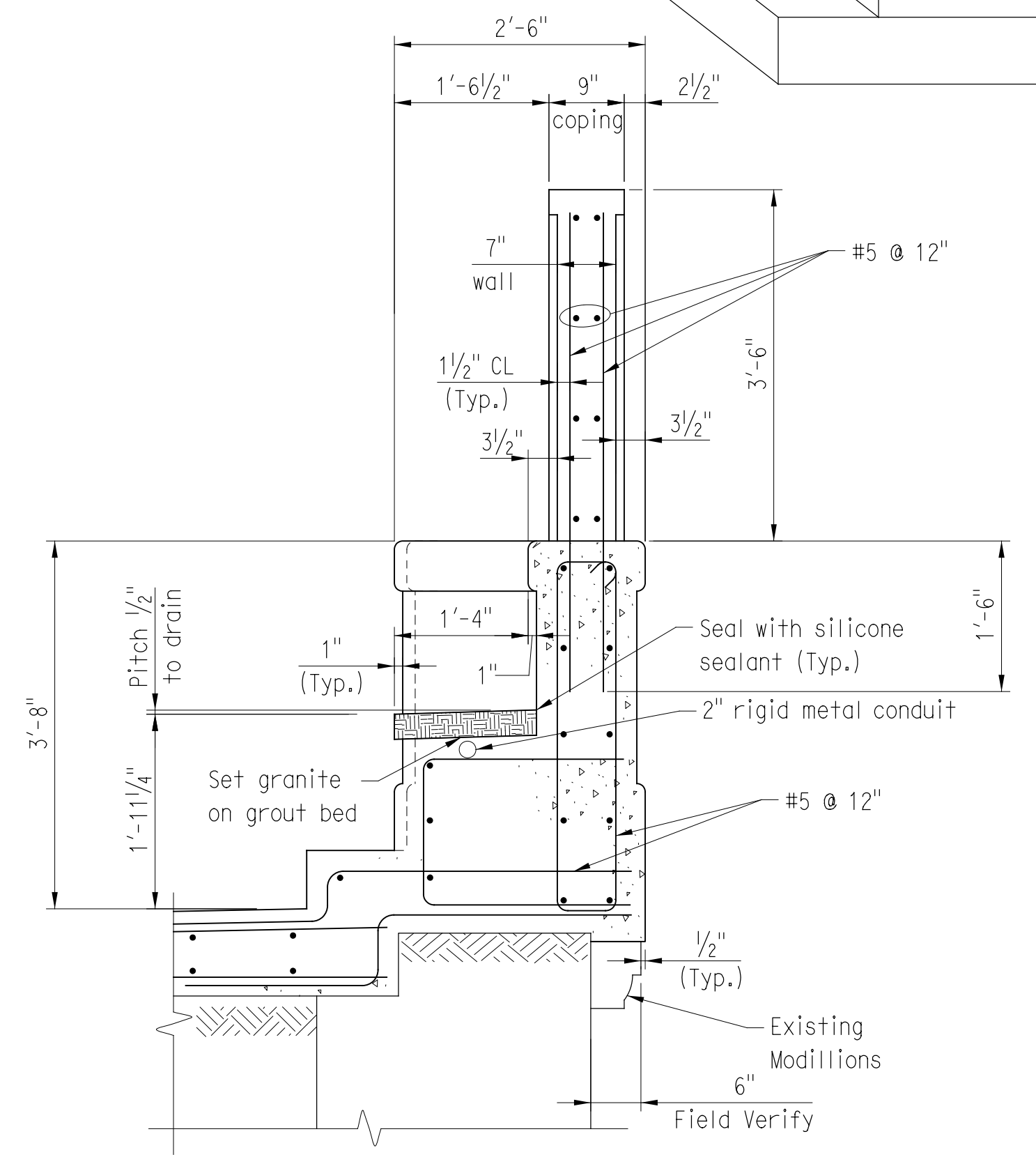
LIGHT POST ANCHORAGE  
Scale 3/4"=1'-0"



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



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



SECTION - MIDSPAN BENCH DETAIL

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REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 1/7/2016

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

BOROUGH OF NAUGATUCK  
DEPARTMENT OF PUBLIC WORKS

SIGNATURE/BLOCK: [Signature]

CHA  
CONSTRUCTION HARBOUR & ASSOCIATES LLP  
2130 Simeon Drive Highway, Suite 212, Rocky Hill, CT 06067-2539  
Tel: (860) 251-4007 www.cha-naugatuck.com

PROJECT TITLE: MAPLE STREET OVER NAUGATUCK RIVER

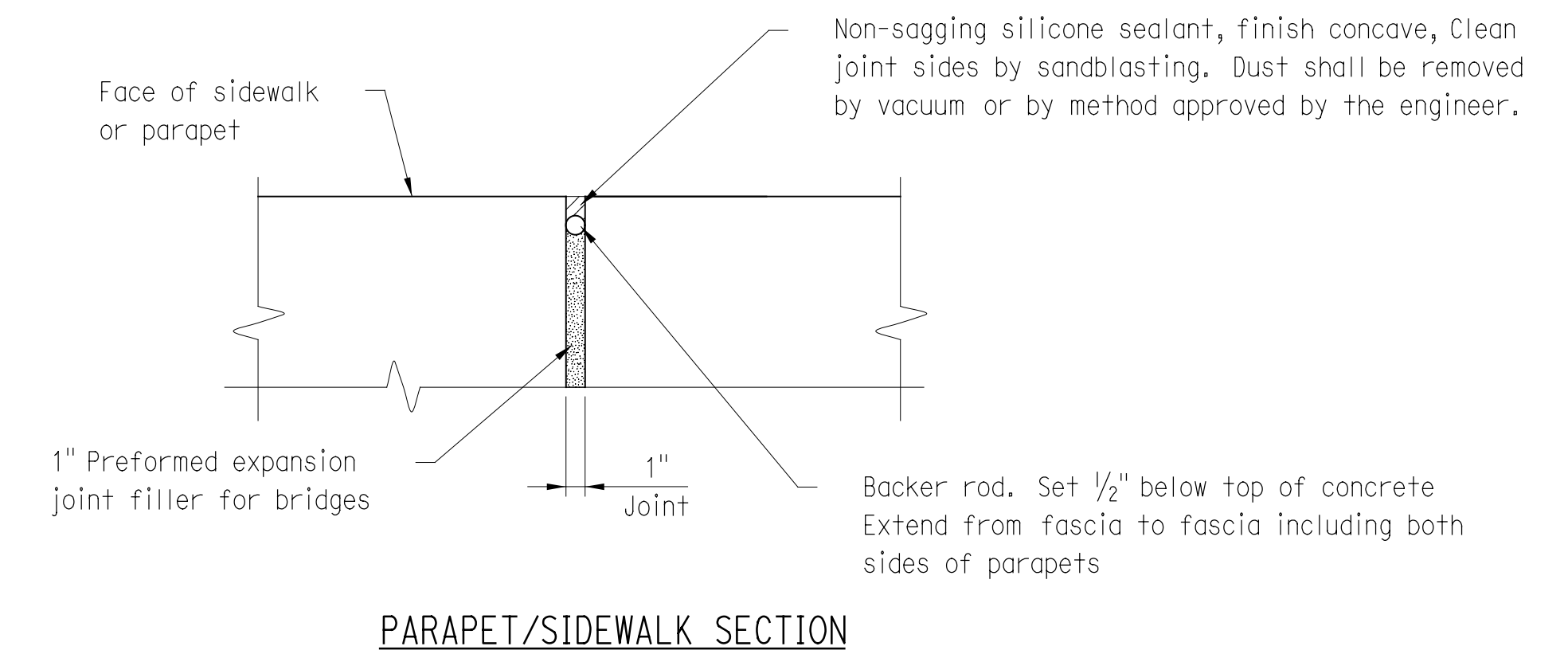
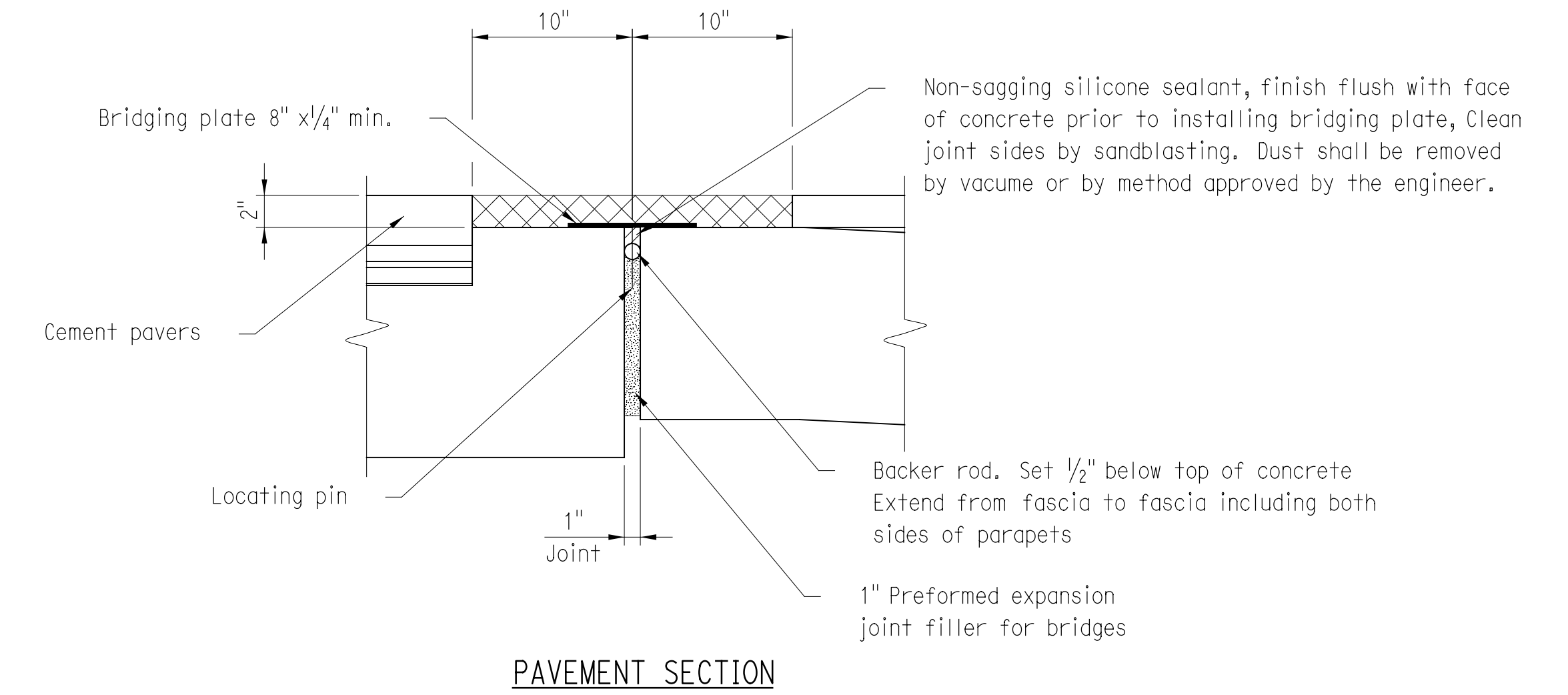
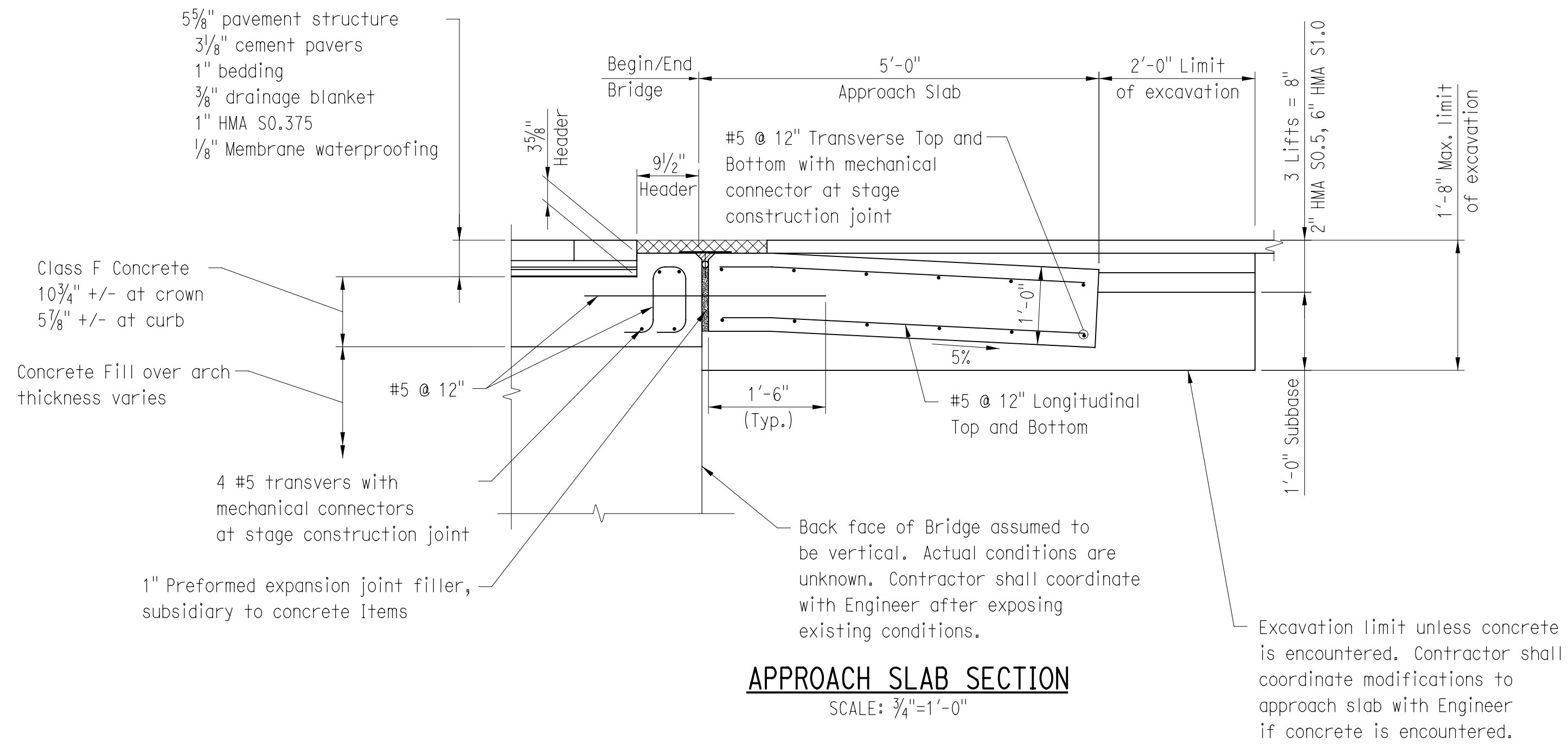
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DRAWING TITLE: DECK DETAILS 1 OF 2

PROJECT NO. 9087-4000  
DRAWING NO.  
SHEET NO. 13 of 27

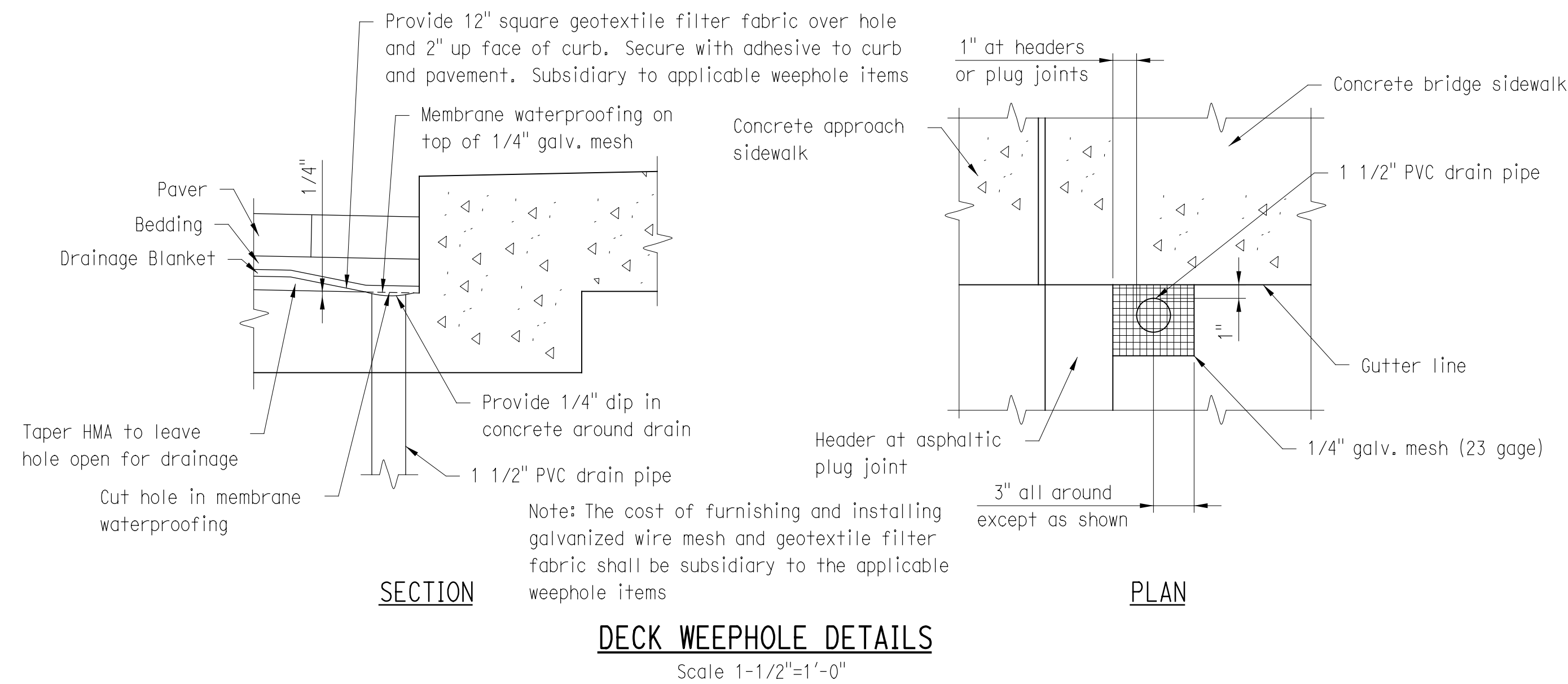


**ASPHALTIC PLUG JOINT NOTES:**

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.



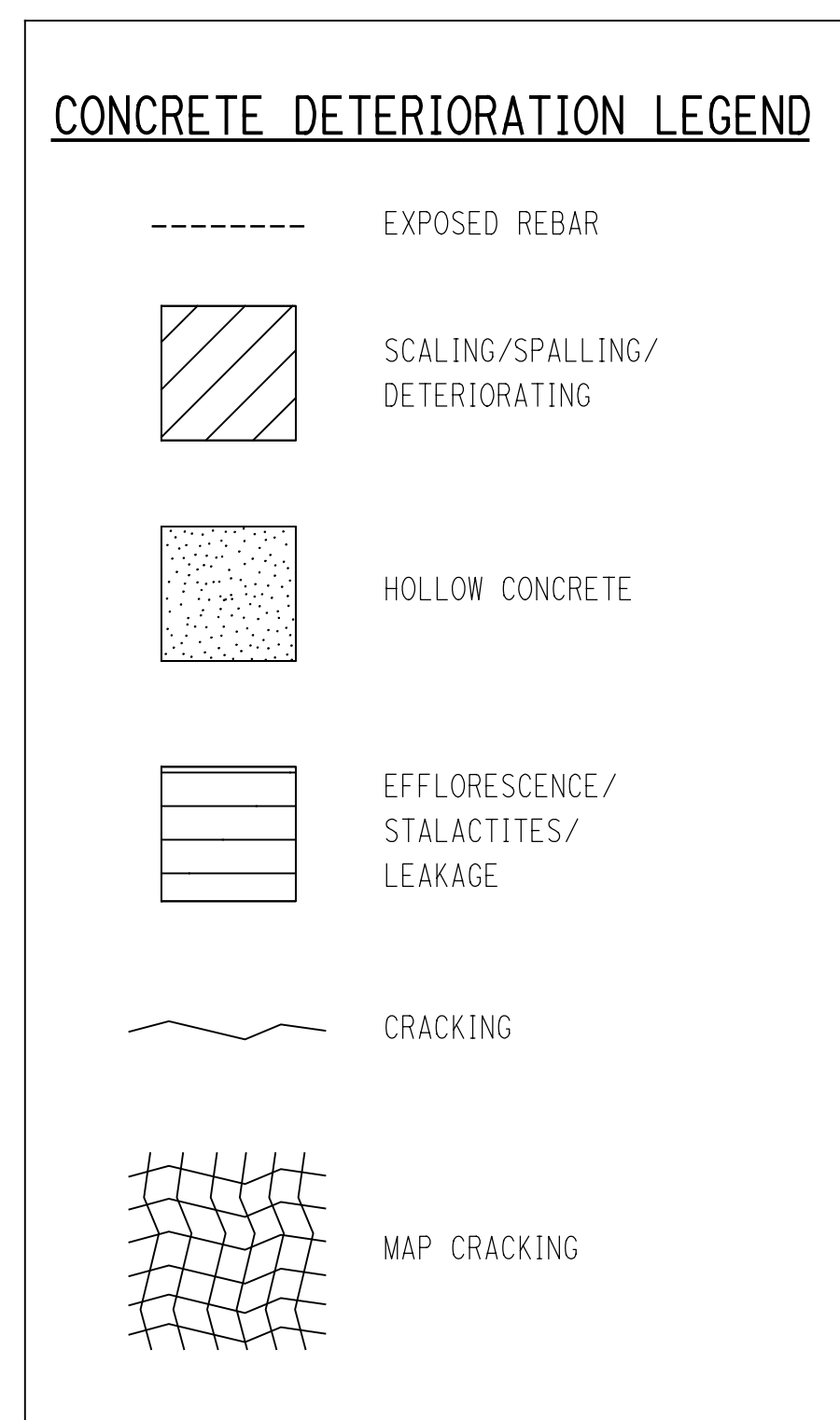
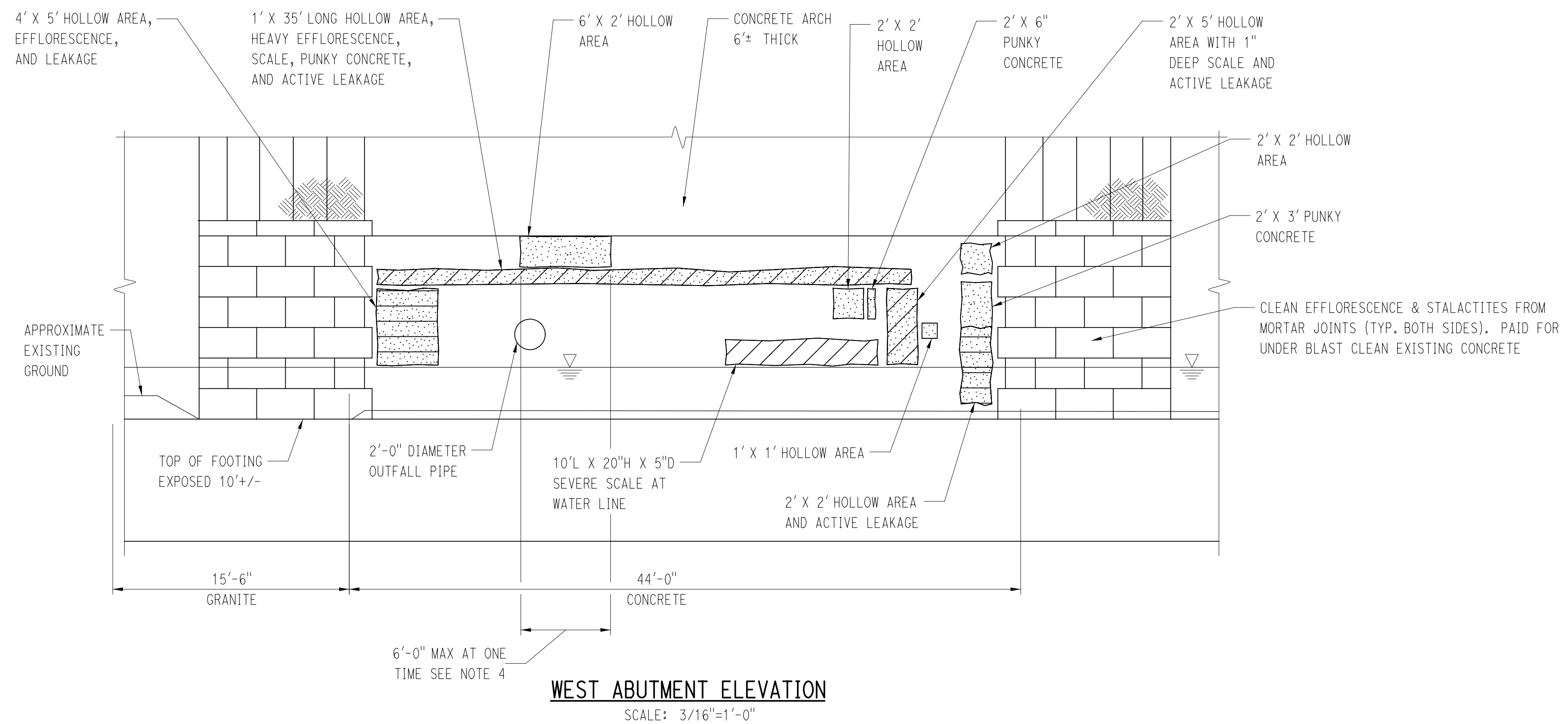
**ASPHALTIC PLUG JOINT DETAILS**  
SCALE: 1/2"=1'-0"



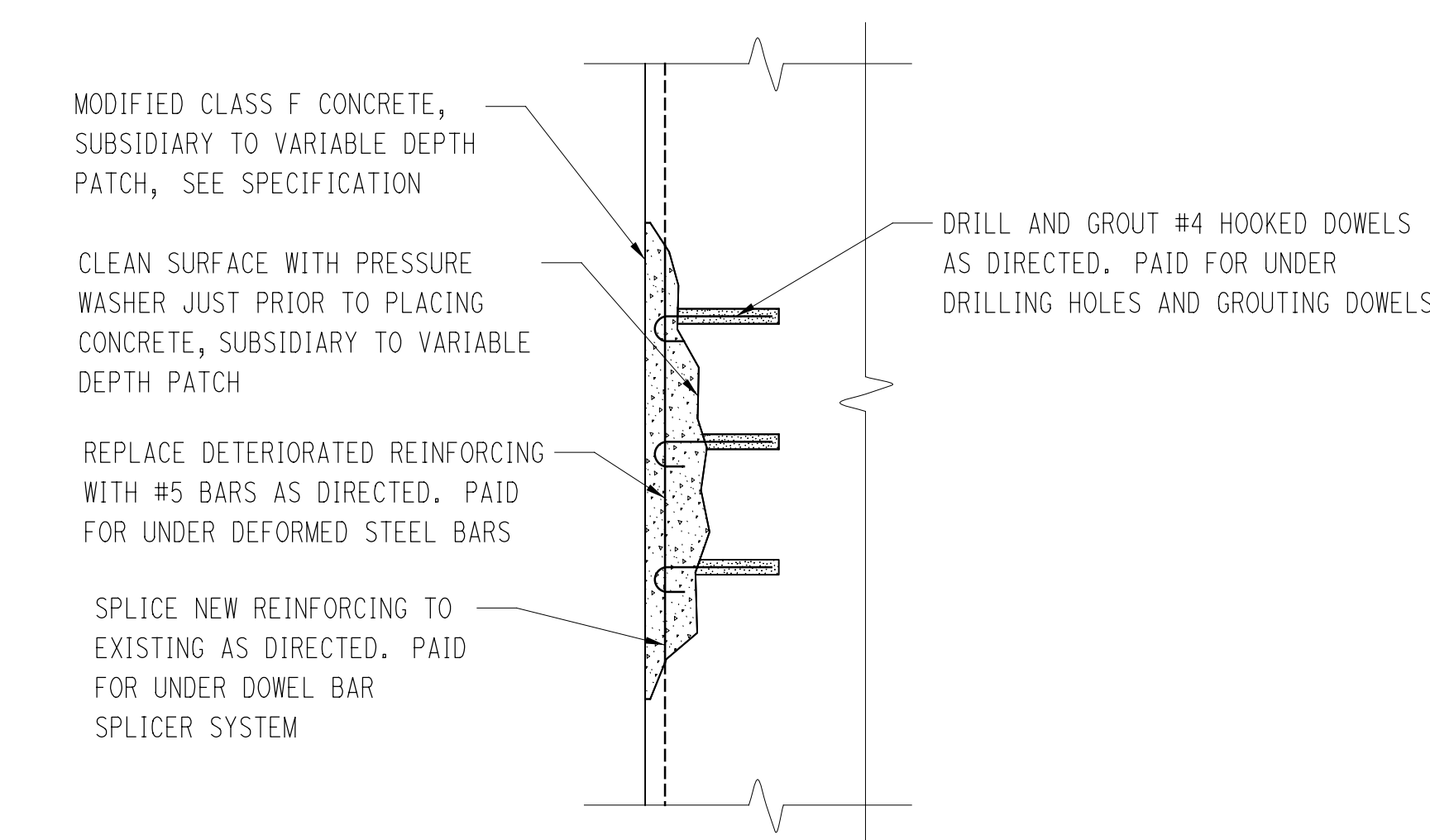
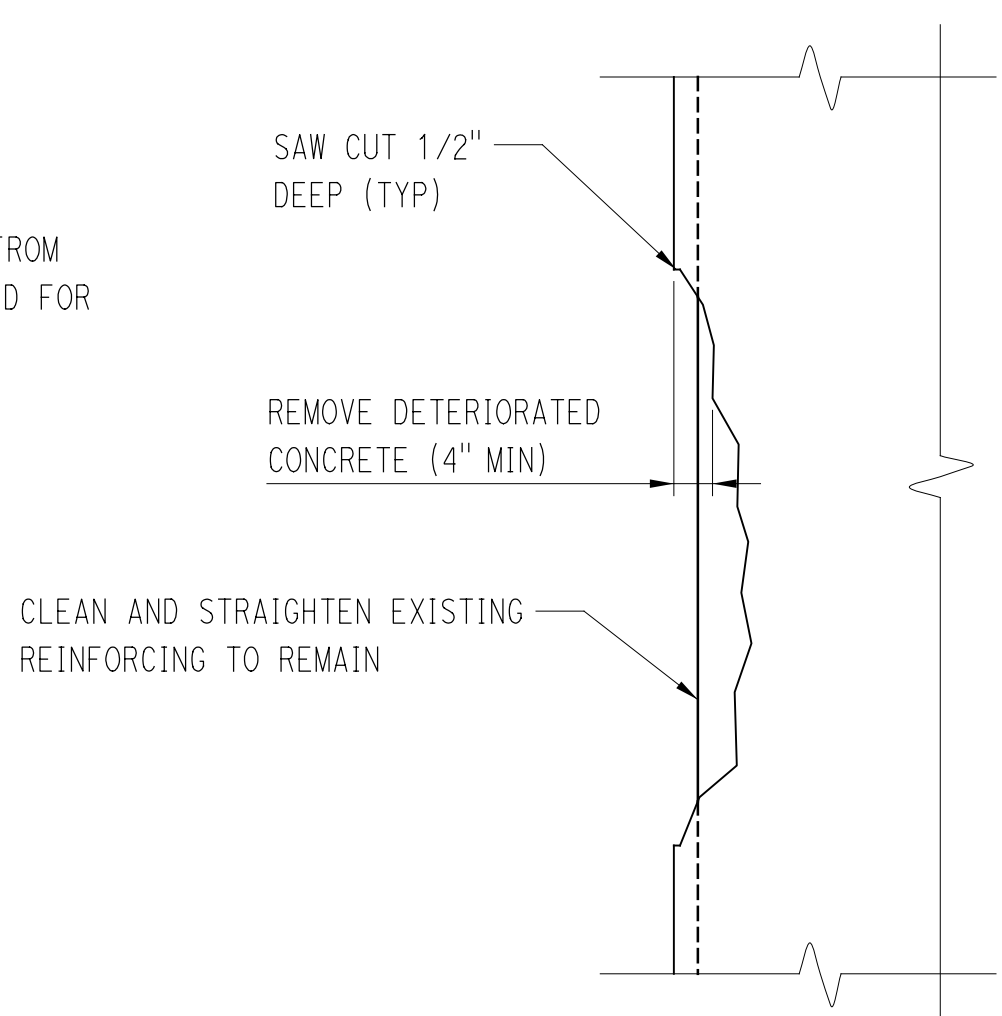
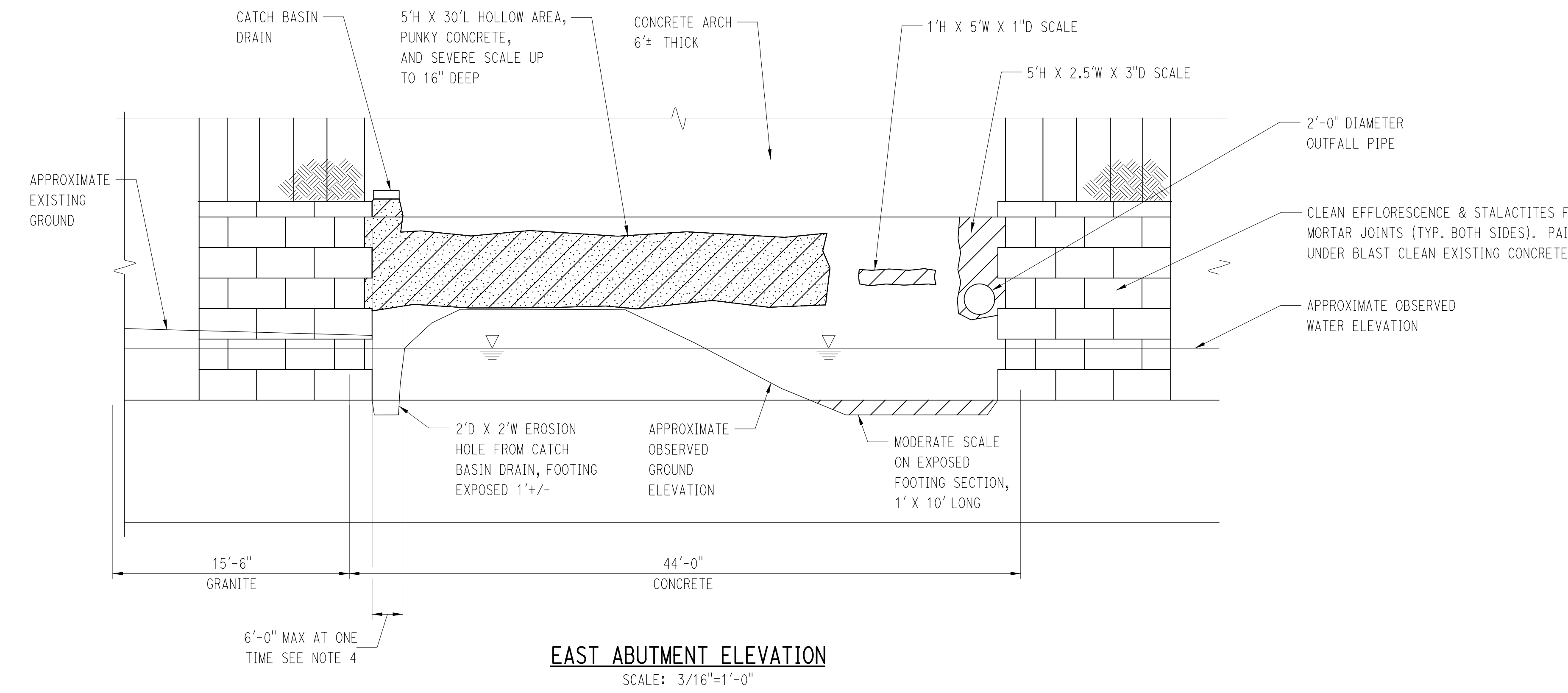
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<p>1 6/22/12 CLARIFIED PAY ITEM</p>		<p>DESIGNER/DRAFTER: JSP</p>		<p>BOROUGH OF NAUGATUCK</p>		<p>PROJECT TITLE: MAPLE STREET OVER NAUGATUCK RIVER</p>		<p>TOWN: NAUGATUCK</p>		<p>PROJECT NO. 9087-4000</p>	
<p>REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 1/7/2016</p>		<p>CHECKED BY: RJF</p>		<p>BOROUGH OF NAUGATUCK DEPARTMENT OF PUBLIC WORKS</p>		<p>SIGNATURE/BLOCK: [Signature]</p>		<p>DRAWING TITLE: DECK DETAILS 2 OF 2</p>		<p>DRAWING NO. 14 of 27</p>	
<p>SCALE AS NOTED</p>		<p>FILENAME: V:\Projects\RCT\16319 Maple Street\CAD\MapleStreet_Plan.tbl</p>		<p>CHA</p>		<p>PROFESSIONAL ENGINEER</p>		<p>CONTRACT NO. 9087-4000</p>		<p>SHEET NO. 14 of 27</p>	





- 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 30 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 FOR THE ENTIRE LENGTH OF AN ARCH SPAN 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.



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1	6/22/12	REVISED HAMMER WEIGHT	SHEET NO.
REV. DATE	REVISION DESCRIPTION		

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 CHECKED BY: RJF  
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BOROUGH OF NAUGATUCK  
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 2130 State Street, Suite 212, Rocky Hill, CT 06067-2539  
 Tel: (860) 251-4007 • www.cha-naugatuck.com

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

TOWN:  
**NAUGATUCK**

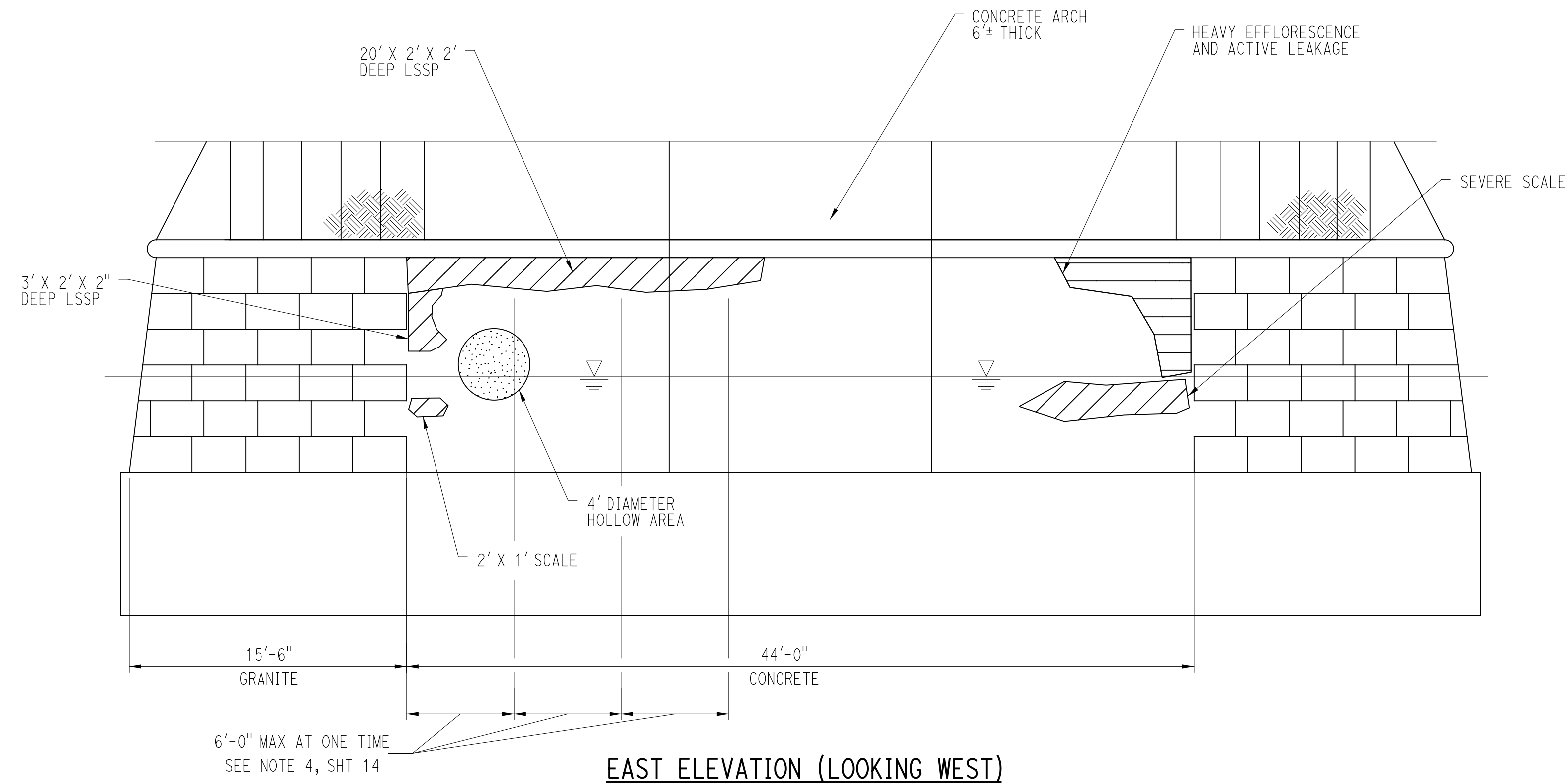
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**ABUTMENT REPAIR DETAIL**

PROJECT NO.  
**9087-4000**

DRAWING NO.  
**15** of **27**

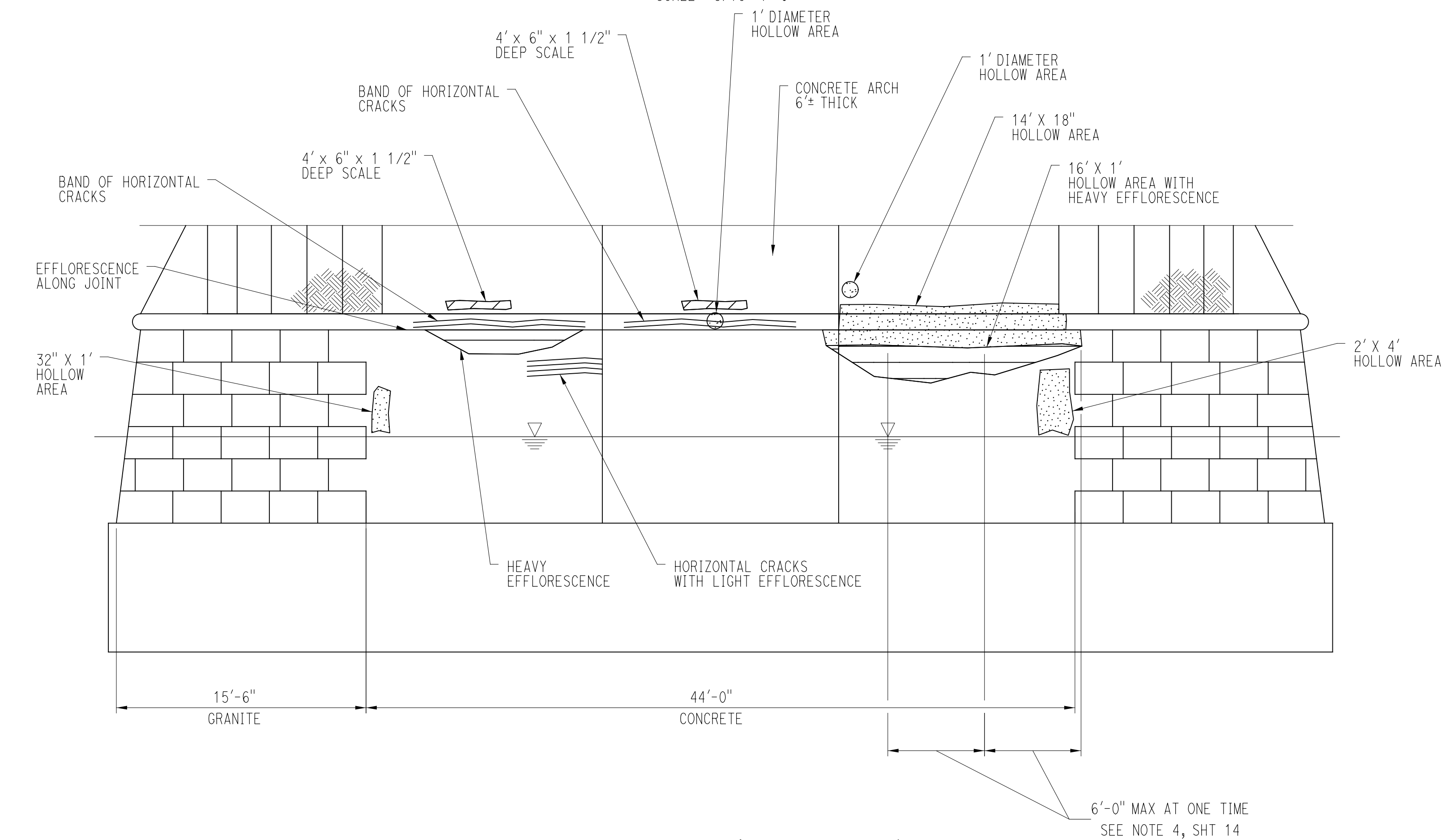
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**EAST ELEVATION (LOOKING WEST)**

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



**WEST ELEVATION (LOOKING EAST)**

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

**NOTES:**

1. FOR CONCRETE REPAIR DETAILS AND NOTES, SEE SHEET 15.

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Plotted Date: 1/7/2016

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**BOROUGH OF NAUGATUCK**  
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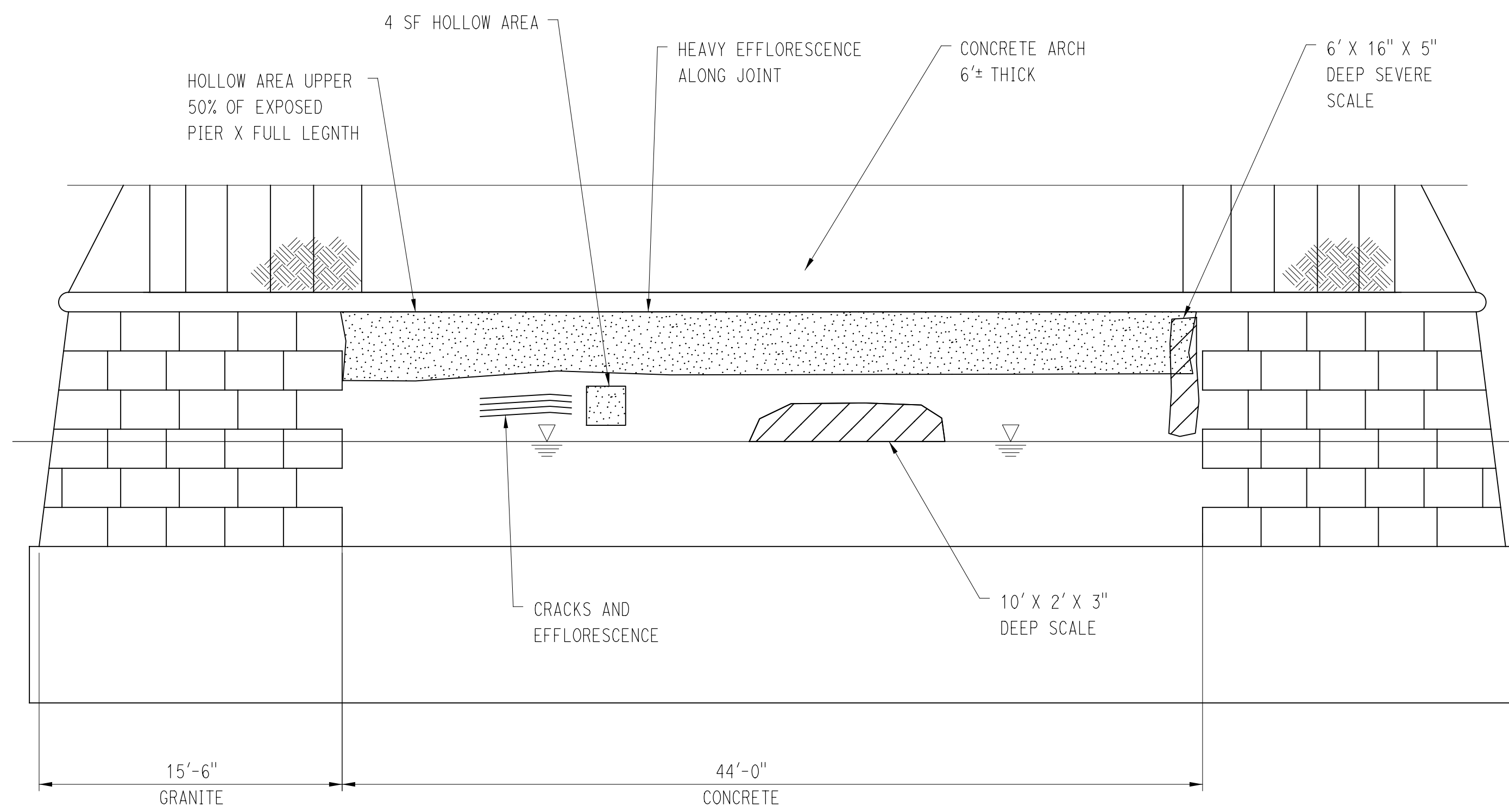
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 Tel: (860) 231-4227 • www.chaengineers.com

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

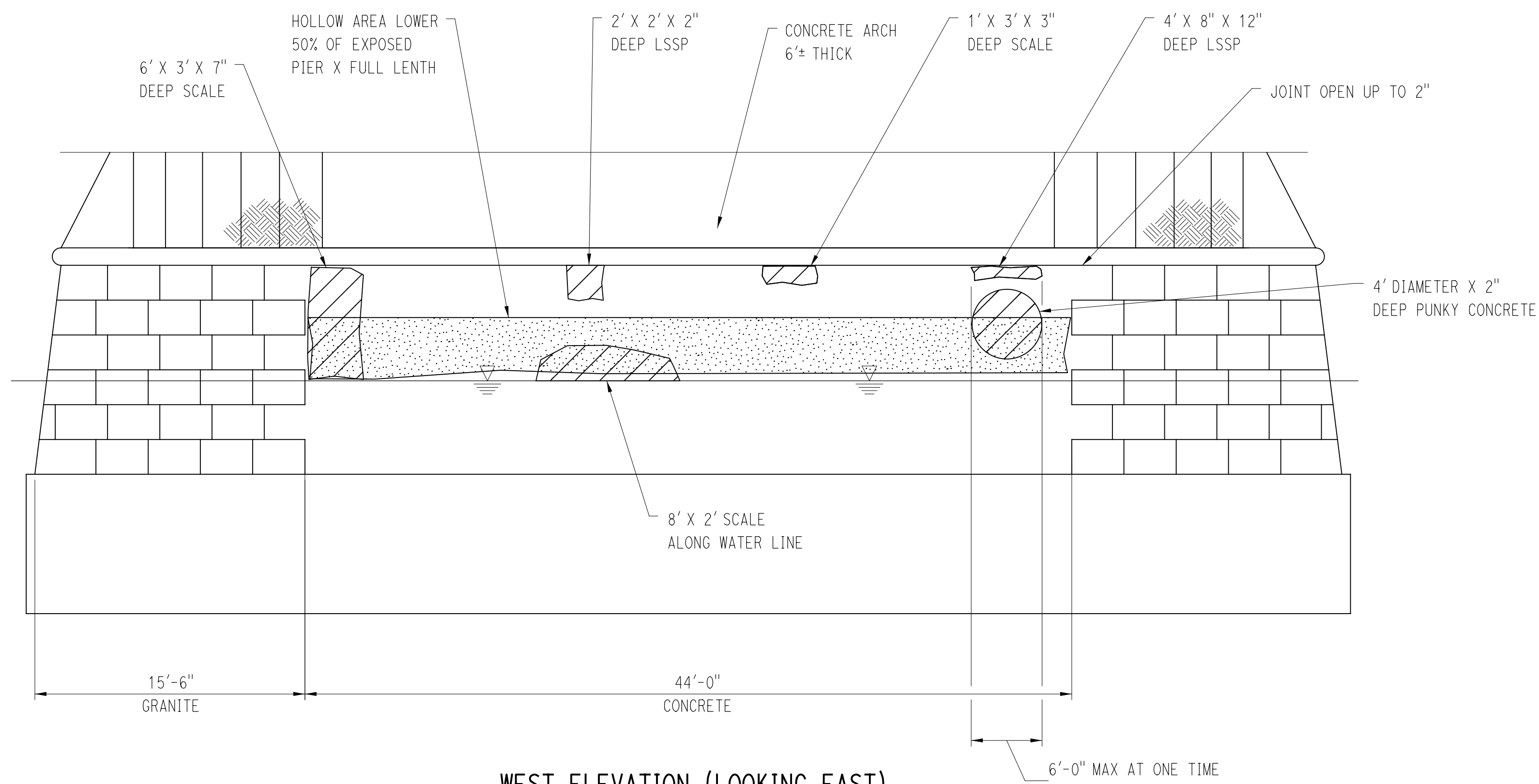
TOWN: **NAUGATUCK**  
 DRAWING TITLE: **PIER 1 REPAIR DETAIL**

PROJECT NO. **9087-4000**  
 DRAWING NO. **16** of **27**





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



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


**NOTES:**

1. FOR CONCRETE REPAIR DETAILS AND NOTES, SEE SHEET 15.

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 1/7/2016

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


**BOROUGH OF NAUGATUCK**  
 DEPARTMENT OF PUBLIC WORKS  
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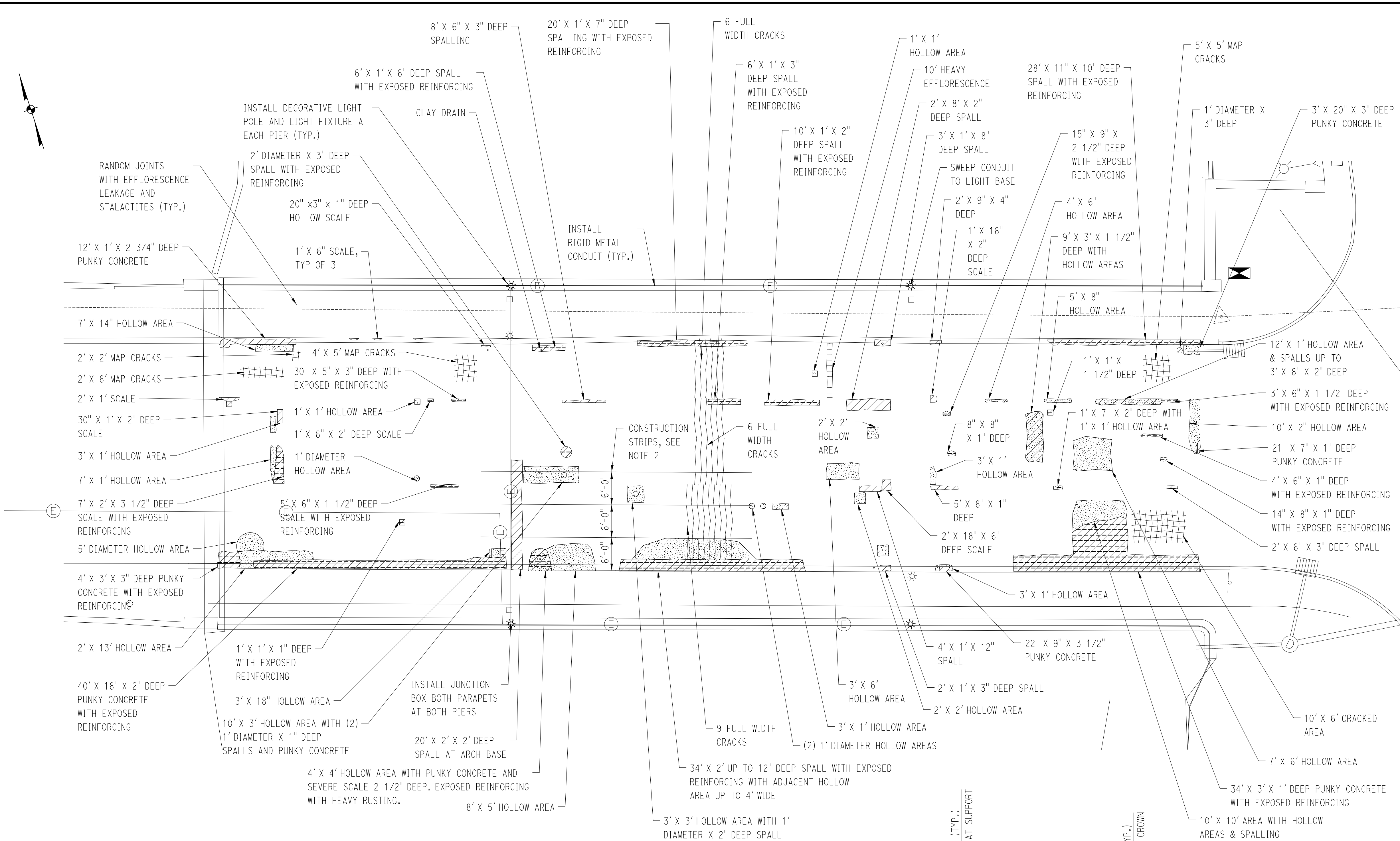

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PROJECT TITLE:  
**MAPLE STREET OVER NAUGATUCK RIVER**

TOWN: NAUGATUCK  
 DRAWING TITLE: PIER 2 REPAIR DETAIL

PROJECT NO. 9087-4000  
 DRAWING NO.  
 SHEET NO. 17 of 27

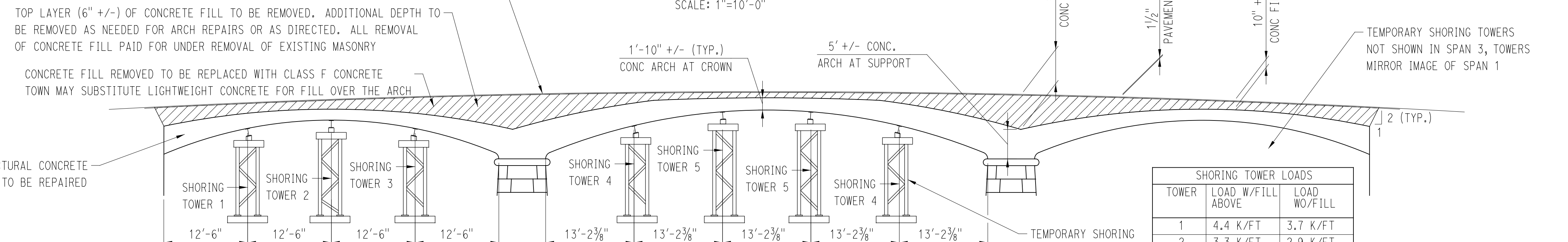




- NOTES:**
1. THE TOP AND BOTTOM OF THE ARCH SHALL BE REPAIRED AT THE SAME TIME UNDER TEMPORARY SUPPORT.
  2. DEMOLITION OF THE STRUCTURE IS LIMITED TO A 6'-0" WIDE STRIP AT ANY ONE TIME. THE REMOVED CONCRETE SHALL BE REPLACED FOR THE ENTIRE SPAN OF AN ARCH PRIOR TO DEMOLITION OF ADDITIONAL WIDTH OF STRUCTURE. SEE REPAIR NOTES SHEET 15.
  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 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 23 AND 24.
  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 15.

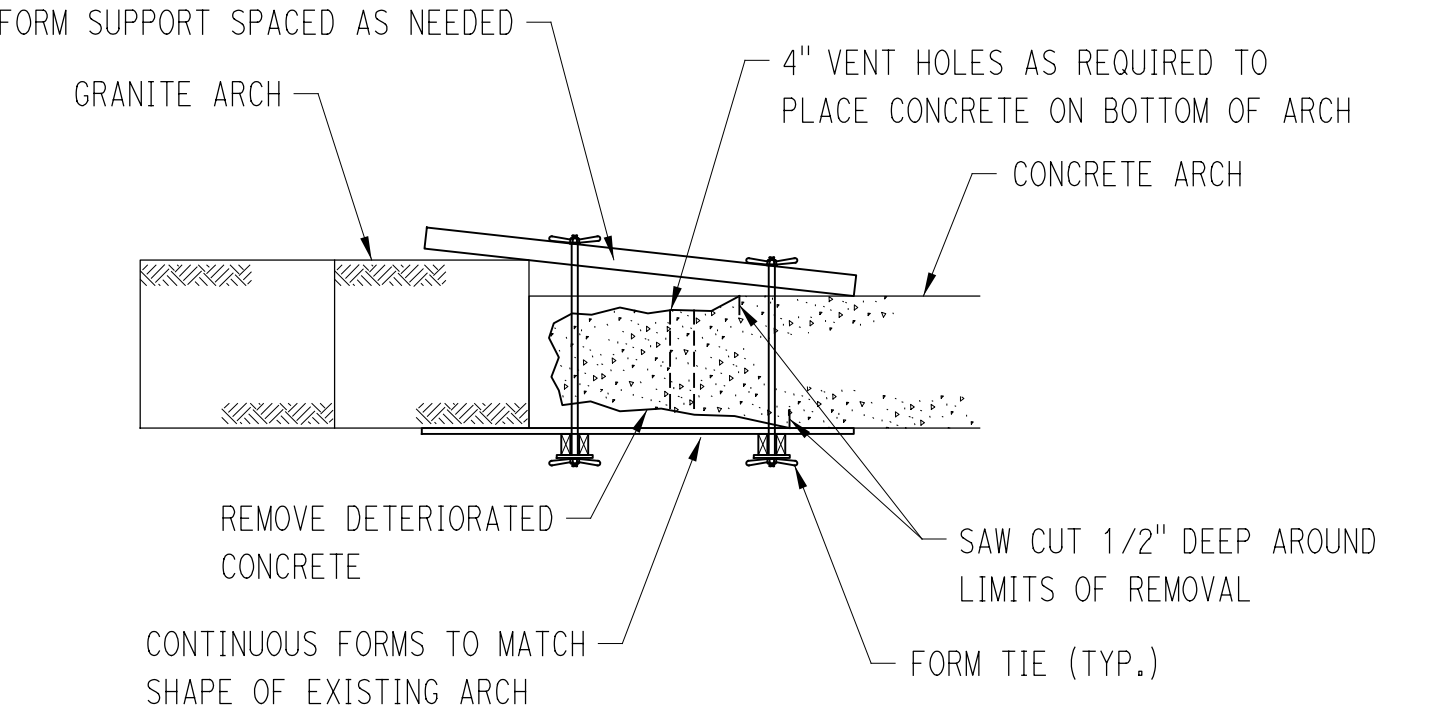
- SHORING NOTES:**
1. TEMPORARY SHORING TOWERS SHALL BE INSTALLED AS SHOWN TO SUPPORT THE ARCH DURING REPAIRS THAT EXPOSE REINFORCING BARS OR WHEN DIRECTED.
  2. THE TOWERS SHALL ONLY BE INSTALLED WITHIN THE COFFERDAM.
  3. THE TRANSVERSE BEAM SHALL PROVIDE CONTINUOUS SUPPORT TO THE ARCH IN THE TRANSVERSE 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, STAMPED BY AN ENGINEER LICENSED IN CONNECTICUT 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.

**BOTTOM OF ARCH PLAN**  
SCALE: 1"=10'-0"



**LONGITUDINAL SECTION OF ARCH**  
SCALE: 1"=10'-0"

SHORING TOWER LOADS		
TOWER	LOAD W/FILL ABOVE	LOAD W/O FILL
1	4.4 K/FT	3.7 K/FT
2	3.3 K/FT	2.9 K/FT
3	5.9 K/FT	3.8 K/FT
4	6.8 K/FT	4.2 K/FT
5	3.6 K/FT	3.1 K/FT



**ARCH REPAIR FROM ABOVE**  
SCALE: 3/8"=1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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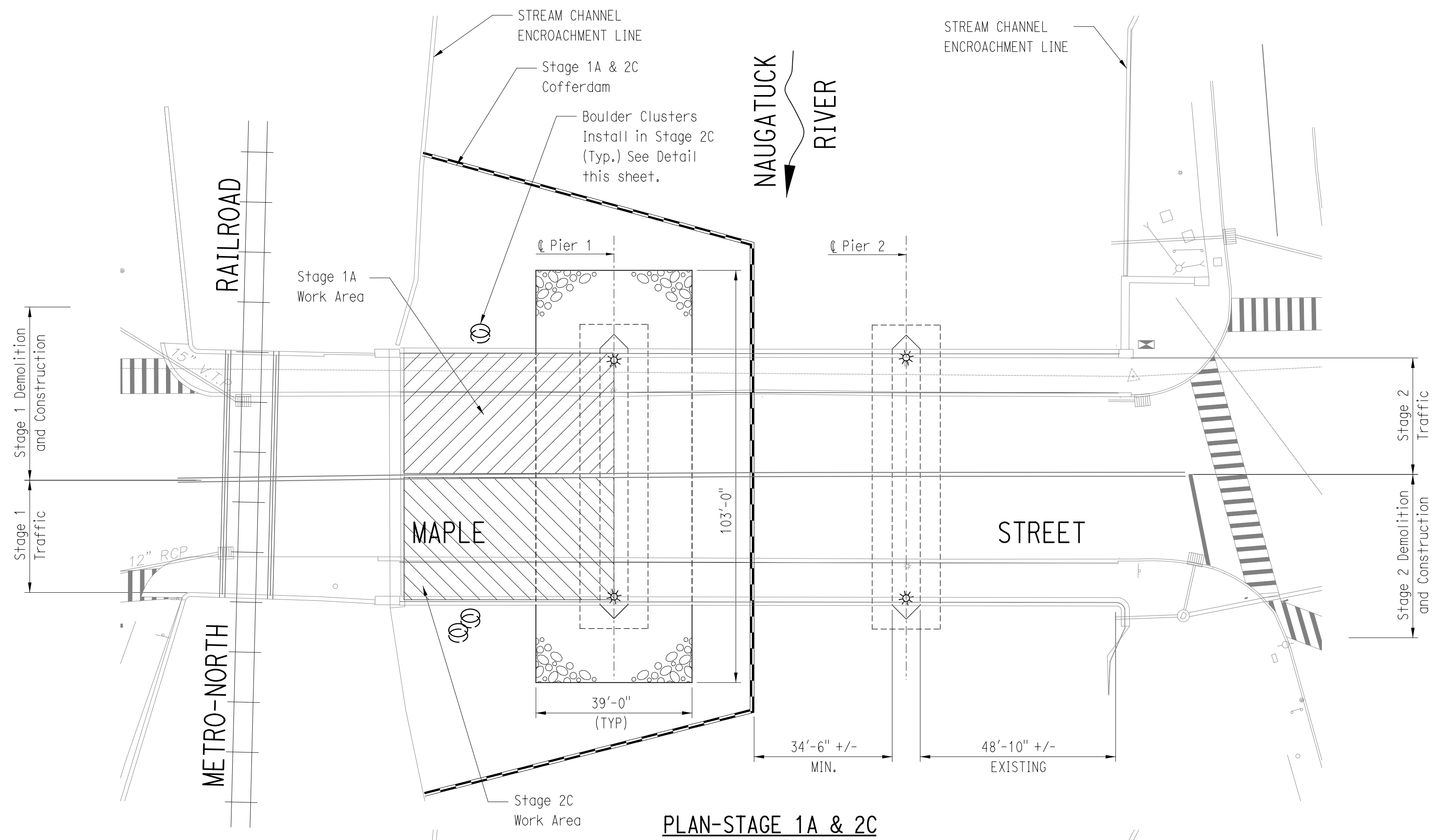
PROJECT TITLE: MAPLE STREET OVER NAUGATUCK RIVER

TOWN: NAUGATUCK  
DRAWING TITLE: ARCH REPAIR DETAIL

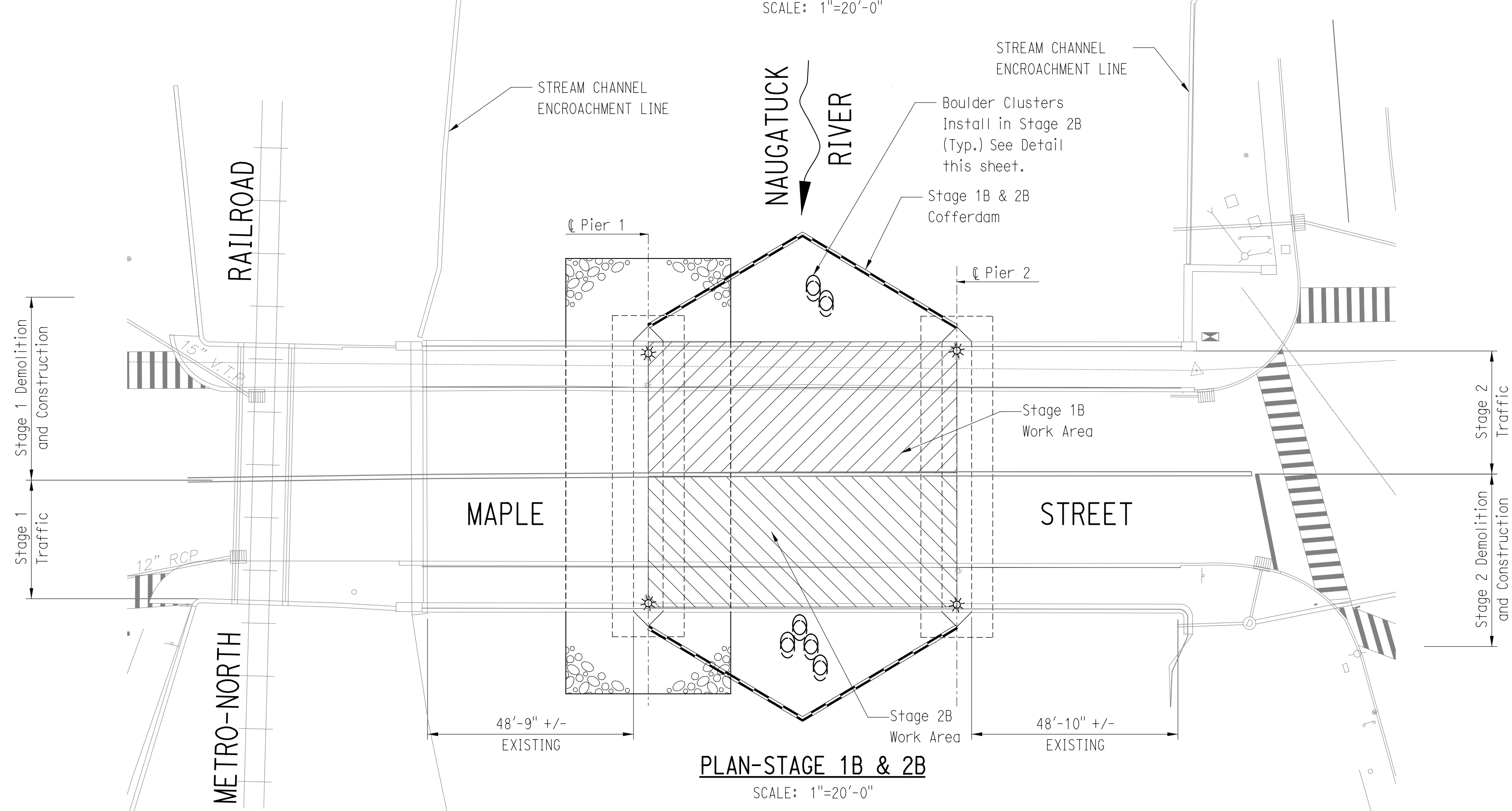
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DRAWING NO. [Blank]  
SHEET NO. 18 of 27

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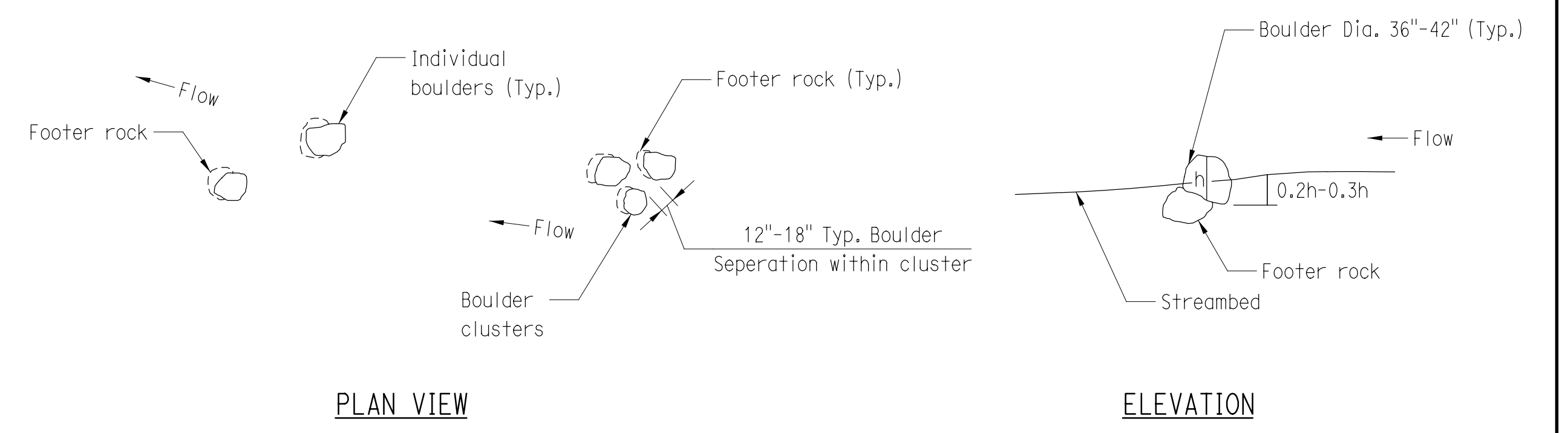
**PLAN-STAGE 1A & 2C**  
SCALE: 1"=20'-0"



**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 21) . DETOUR EASTBOUND TRAFFIC (SEE DETOUR PLAN, SHEET 27). MAINTAIN WESTBOUND 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 22). MAINTAIN EASTBOUND TRAFFIC DETOUR. SHIFT WESTBOUND 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 2.
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

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 1/7/2016

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 Plotted Date: 1/7/2016

DESIGNER/DRAFTER: JSP  
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**BOROUGH OF NAUGATUCK**  
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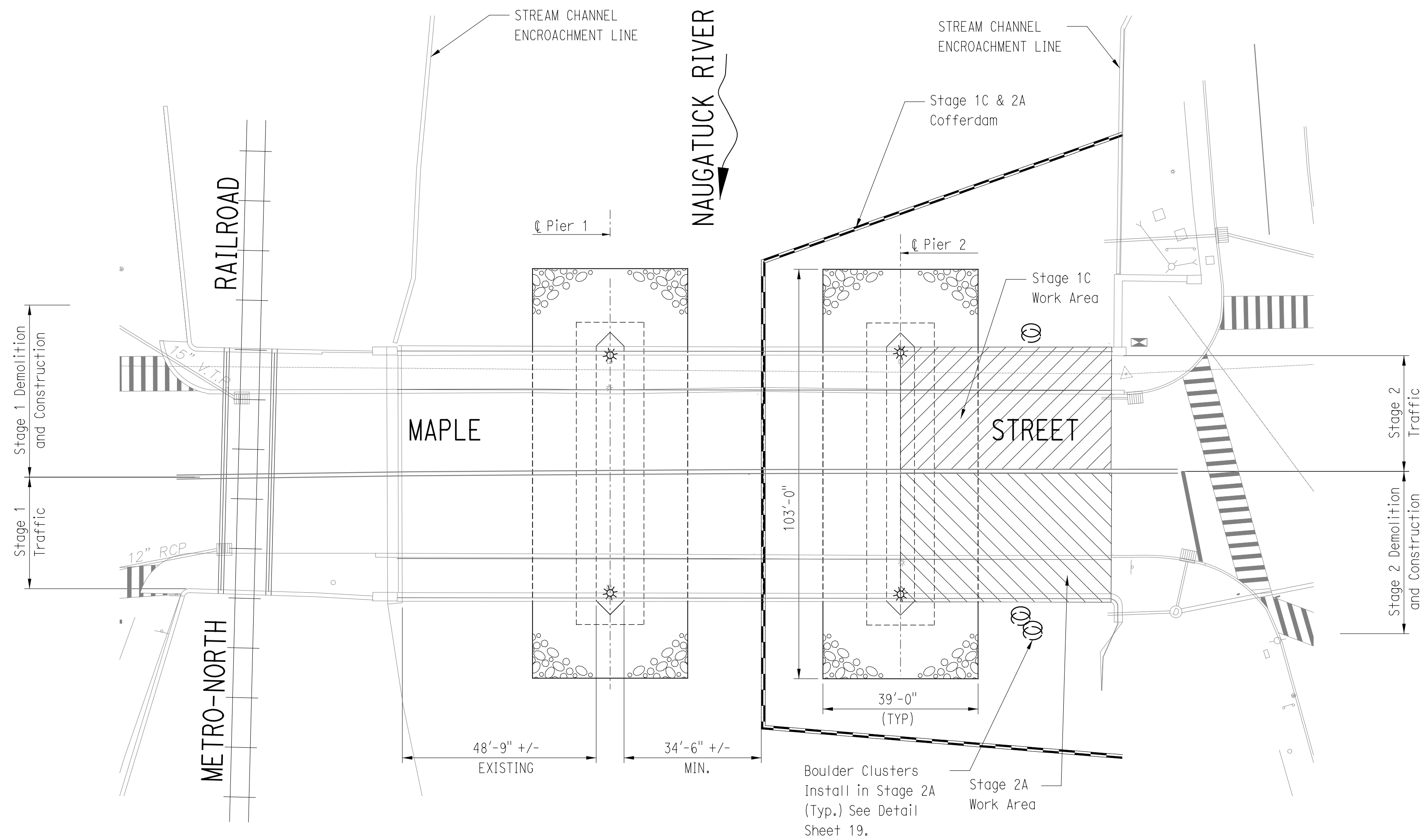

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PROJECT TITLE:  
**MAPLE STREET OVER NAUGATUCK RIVER**

TOWN: **NAUGATUCK**  
 DRAWING TITLE: **CHANNEL PLAN 1 OF 2**

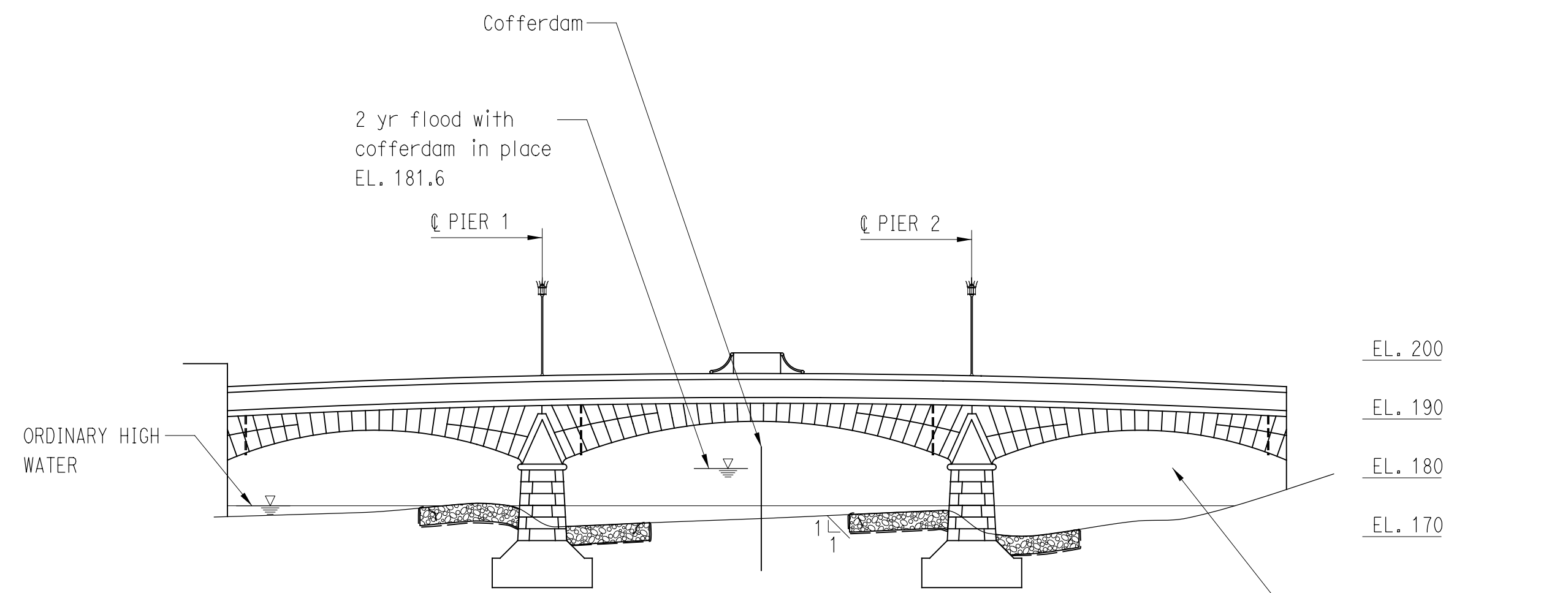
PROJECT NO. **9087-4000**  
 DRAWING NO.  
 SHEET NO. **19** of **27**





**PLAN-STAGE 1C & 2A**

SCALE: 1"=20'-0"



**ELEVATION**

SCALE: 1"=20'-0"

**NOTES:**

- UNCONFINED IN-STREAM ACTIVITY IS RESTRICTED TO THE TIME PERIOD OF JUNE 1 THROUGH SEPTEMBER 30.
- ALL MACHINERY, MATERIALS, AND REMOVAL OF SOIL AND DEBRIS REQUIRED FOR THE REPAIR OF THE STRUCTURE AND PLACEMENT OF RIPRAP MUST BE LOWERED OVER THE SIDE OF THE BRIDGE INTO THE COFFERDAM. ALL TOOLS AND MACHINERY SHALL BE REMOVED FROM THE COFFERDAM EVERY NIGHT.
- DEBRIS AND OTHER WASTE RESULTING FROM EQUIPMENT MAINTENANCE AND CONSTRUCTION SHALL NOT BE DISCARDED ON SITE.
- IN ALL AREAS, REMOVAL OF TREES, BUSHES AND OTHER VEGETATION AND DISTURBANCE OF THE SOIL, IS TO BE KEPT TO AN ABSOLUTE MINIMUM WHILE ALLOWING PROPER DEVELOPMENT OF THE SITE.
- CONTRACTOR IS TO BUILD TEMPORARY COFFERDAMS AROUND THE PIER AND WATER SIDE OF THE ABUTMENTS. COFFERDAMS ARE TO CONSIST OF APPROPRIATE MATERIAL, TO CREATE A WATER TIGHT WORK AREA ALLOWING PLACEMENT OF RIPRAP AND REPAIR OF THE SUBSTRUCTURE IN THE DRY. SAND BAGS ARE NOT ALLOWED AS A PRIMARY BARRIER IN THE COFFERDAM. ALL COSTS TO BE PAID FOR UNDER THE PAY ITEM "COFFERDAM AND DEWATERING".
- TEMPORARY COFFERDAM SHALL BE DESIGNED AND INSTALLED TO PROVIDE A MINIMUM HEIGHT ABOVE THE STREAM BED AS NECESSARY TO RETAIN A 2 YEAR STORM EL. 181.6.
- EFFLUENT FROM DEWATERED WORK AREAS SHOULD NOT BE DISCHARGED DIRECTLY TO THE STREAM BUT BE PROCESSED THROUGH PORTABLE SEDIMENT TANK. COSTS TO BE INCLUDED IN THE PAY ITEM "COFFERDAM AND DEWATERING".
- PORTABLE SEDIMENT TANK SHALL HAVE A MINIMUM RETENTION TIME OF AT LEAST 2 HOURS AND SHALL MEET THE SPECIFICATIONS OF 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, SECTION 5-13-11. CONTRACTOR SHALL SUBMIT PROPOSED DETAILS FOR APPROVAL PRIOR TO CONSTRUCTION.
- CONSTRUCTION DEBRIS INSIDE THE COFFERDAM IS TO BE COMPLETELY REMOVED FROM THE RIVER BED PRIOR TO THE REMOVAL OF THE COFFERDAM.
- THE CONTRACTOR SHALL CLEAN SEDIMENT AND DEBRIS FROM ALL DRAINAGE STRUCTURES AND PIPES AT THE COMPLETION OF CONSTRUCTION AND AS REQUESTED BY THE RESIDENT ENGINEER.
- FOLLOWING COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL REPAIR ALL ERODED AREAS AND DISPLACED RIPRAP.
- A CONSTRUCTION SEQUENCING PLAN AND A WATER HANDLING PLAN INCLUDING A CONTINGENCY PLAN FOR FLOOD EVENTS MUST BE SUBMITTED IN WRITING TO THE ENGINEER AND APPROVED BY THE ENGINEER PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION IN A WATERWAY.
- CONTRACTOR MAY PROPOSE ALTERNATE METHODS OF CONSTRUCTION FOR APPROVAL.

TEMPORARY HYDRAULIC SUMMARY DATA	
DESCRIPTION	VALUES
AVERAGE DAILY FLOW	390 CFS
AVERAGE SPRING FLOW	790 CFS
2-YEAR FREQUENCY DISCHARGE	5,500 CFS
TEMPORARY DESIGN DISCHARGE	5,500 CFS
TEMPORARY DESIGN FREQUENCY	2 YR
TEMPORARY WATER SURFACE ELEVATION- UPSTREAM	181.6 FT
TEMPORARY WATER SURFACE ELEVATION- DOWNSTREAM	178.5 FT

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

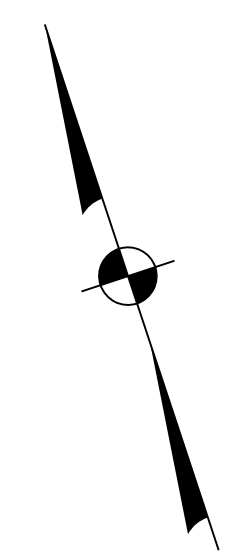
TOWN:  
**NAUGATUCK**  
 DRAWING TITLE:  
**CHANNEL PLAN 2 OF 2**

PROJECT NO.  
**9087-4000**  
 DRAWING NO.  
 SHEET NO.  
**20 of 27**









SOUTHBOUND WATER STREET CLOSED  
SEE SHEET 27 FOR DETAILS

TEMPORARY PLASTIC PAVEMENT  
MARKING TAPE  
TEMPORARY STOP BAR - 12" WHITE  
STA. 9+41

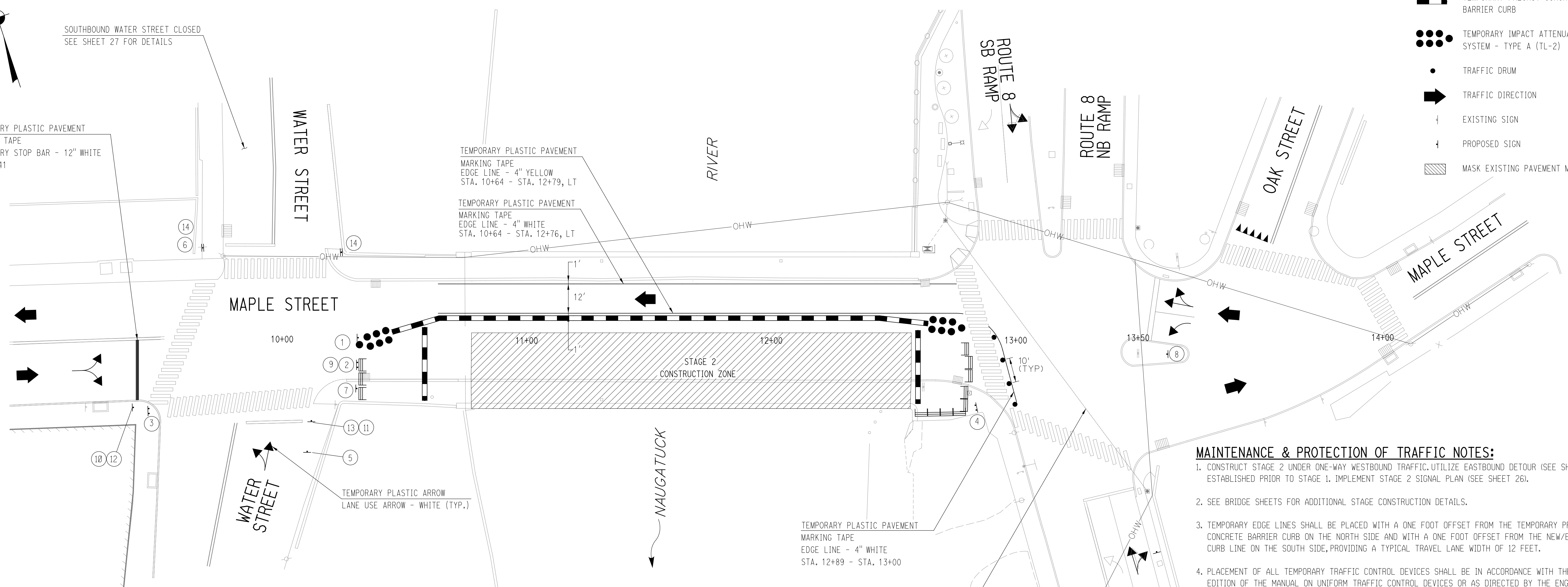
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MARKING TAPE  
EDGE LINE - 4" YELLOW  
STA. 10+64 - STA. 12+79, LT

TEMPORARY PLASTIC PAVEMENT  
MARKING TAPE  
EDGE LINE - 4" WHITE  
STA. 10+64 - STA. 12+76, LT

TEMPORARY PLASTIC PAVEMENT  
MARKING TAPE  
EDGE LINE - 4" WHITE  
STA. 12+89 - STA. 13+00

TEMPORARY SIGNAL MODIFICATIONS  
SEE SHEET 26 FOR DETAILS

- 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
  - MASK EXISTING PAVEMENT MARKINGS



- MAINTENANCE & PROTECTION OF TRAFFIC NOTES:**
- CONSTRUCT STAGE 2 UNDER ONE-WAY WESTBOUND TRAFFIC. UTILIZE EASTBOUND DETOUR (SEE SHEET 27) ESTABLISHED PRIOR TO STAGE 1. IMPLEMENT STAGE 2 SIGNAL PLAN (SEE SHEET 26).
  - SEE BRIDGE SHEETS FOR ADDITIONAL STAGE CONSTRUCTION DETAILS.
  - TEMPORARY EDGE LINES SHALL BE PLACED WITH A ONE FOOT OFFSET FROM THE TEMPORARY PRECAST CONCRETE BARRIER CURB ON THE NORTH SIDE AND WITH A ONE FOOT OFFSET FROM THE NEW/EXISTING CURB LINE ON THE SOUTH SIDE, PROVIDING A TYPICAL TRAVEL LANE WIDTH OF 12 FEET.
  - PLACEMENT OF ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES OR AS DIRECTED BY THE ENGINEER FOR A DESIGN SPEED OF 25 MPH.
  - EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE TEMPORARY MARKINGS SHOWN ON THE PLANS SHALL BE REMOVED TO AVOID DRIVER CONFUSION. PERMANENT MARKINGS SHALL BE REPLACED UPON COMPLETION OF CONSTRUCTION. SEE SHEET 6, SIGNING AND STRIPING PLAN.
  - EXISTING SIGNS THAT CONFLICT WITH THE CONSTRUCTION SIGNS SHOWN ON THE PLANS SHALL BE COVERED OR REMOVED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. ALL REMOVED SIGNS SHALL BE RE-INSTALLED UPON COMPLETION OF CONSTRUCTION.
  - 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 THE MUTCD FOR ALL OTHER DETAILS.
  - PAVEMENT MARKING ARROWS AND WORDS ARE SHOWN SCHEMATICALLY, ACTUAL PLACEMENT SHALL BE AT THE DISCRETION OF THE ENGINEER.
  - THE CONTRACTOR SHALL PROVIDE MEANS OF SECURING THE CONSTRUCTION ZONE FROM PEDESTRIAN ACCESS, PAYMENT INCIDENTAL TO MAINTENANCE AND PROTECTION OF TRAFFIC.
  - 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 S0.375' ITEM.
  - SEE SHEET 26 TEMPORARY SIGNAL PLAN STAGE 2 FOR ADDITIONAL SIGNS AT SOUTH MAIN ST AND MAPLE ST.

**SIGN LEGEND:**

NOTE: SEE CTDOT'S "CATALOG OF SIGNS" DATED MAY 2015 FOR SIGN NO. AND CORRESPONDING SIGN SIZE, SHEETING TYPE, MATERIAL, COLORS, LEGEND AND TEXT.

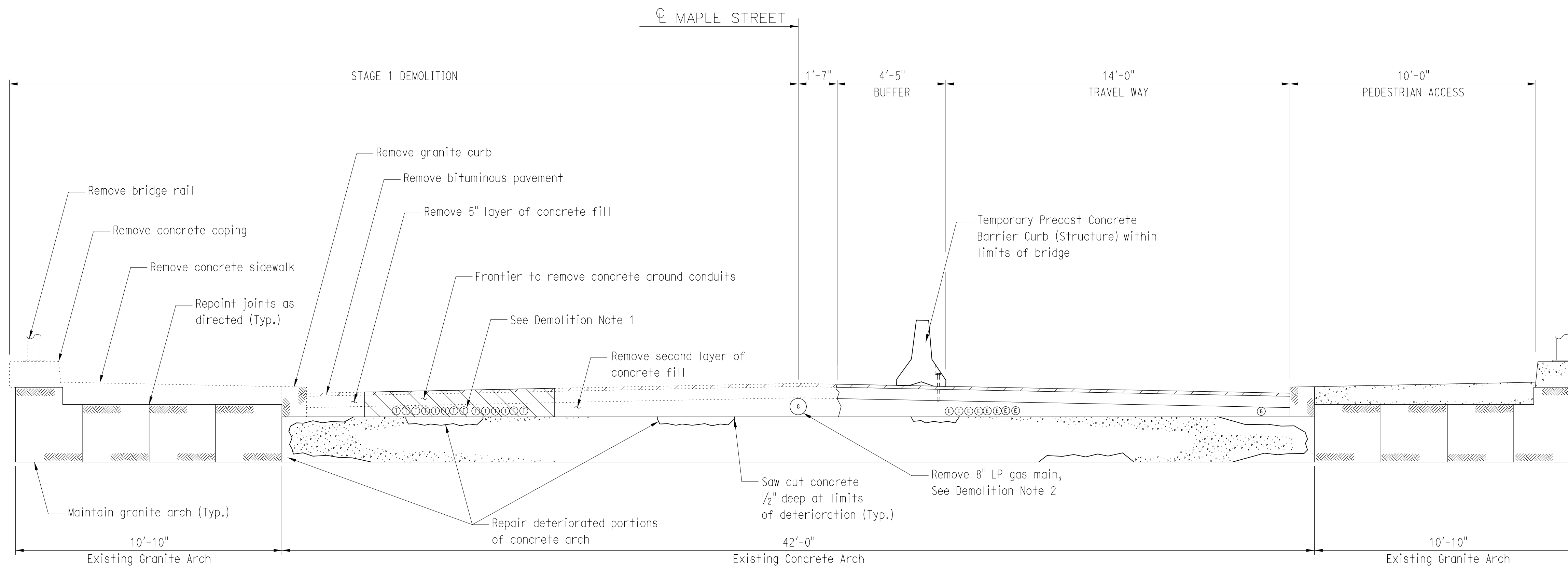
- |   |  |
|---|--|
| ① DO NOT ENTER<br>SIGN NO. 31-1119 (30" X 30")                                      | ⑧ INTERSECTION LANE CONTROL - LEFT ARROW/ONLY AND THRU/RIGHT ARROW<br>SIGN NO. 31-0282 |
| ② MAPLE STREET/CLOSED (MOUNT ON TYPE III BARRICADE)<br>SIGN NO. 80-9080 (48" X 30") | ⑨ DETOUR (LEFT) (MOUNT ON TYPE III BARRICADE)<br>SIGN NO. 80-9702 (48" X 18")          |
| ③ SIDEWALK CLOSED/LEFT ARROW/CROSS HERE<br>SIGN NO. 80-9075 (24" X 12")             | ⑩ STOP SIGN<br>SIGN NO. 31-0553 (36" X 36")  |
| ④ SIDEWALK CLOSED/RIGHT ARROW/CROSS HERE<br>SIGN NO. 80-9075 (24" X 12")            | ⑪ EXISTING STOP SIGN (MAINTAIN)  |
| ⑤ RIGHT TURN PROHIBITION<br>SIGN NO. 31-1604 (24" X 24")                            | ⑫ ONCOMING TRAFFIC DOES NOT STOP<br>SIGN NO. 41-0565 (30" X 18")                       |
| ⑥ EXISTING STOP SIGN (BAG FOR DURATION OF CONSTRUCTION)                             | ⑬ TRAFFIC FROM RIGHT DOES NOT STOP<br>SIGN NO. 41-0543 (30" X 18")                     |
| ⑦ SIDEWALK CLOSED SIGN NO. 80-9076 (30" X 18")                                      | ⑭ ONE WAY BACK TO BACK<br>SIGN NOS. 31-1177 (36" X 12") AND 31-1188 (36" X 12")        |

**STAGE 2 PLAN**

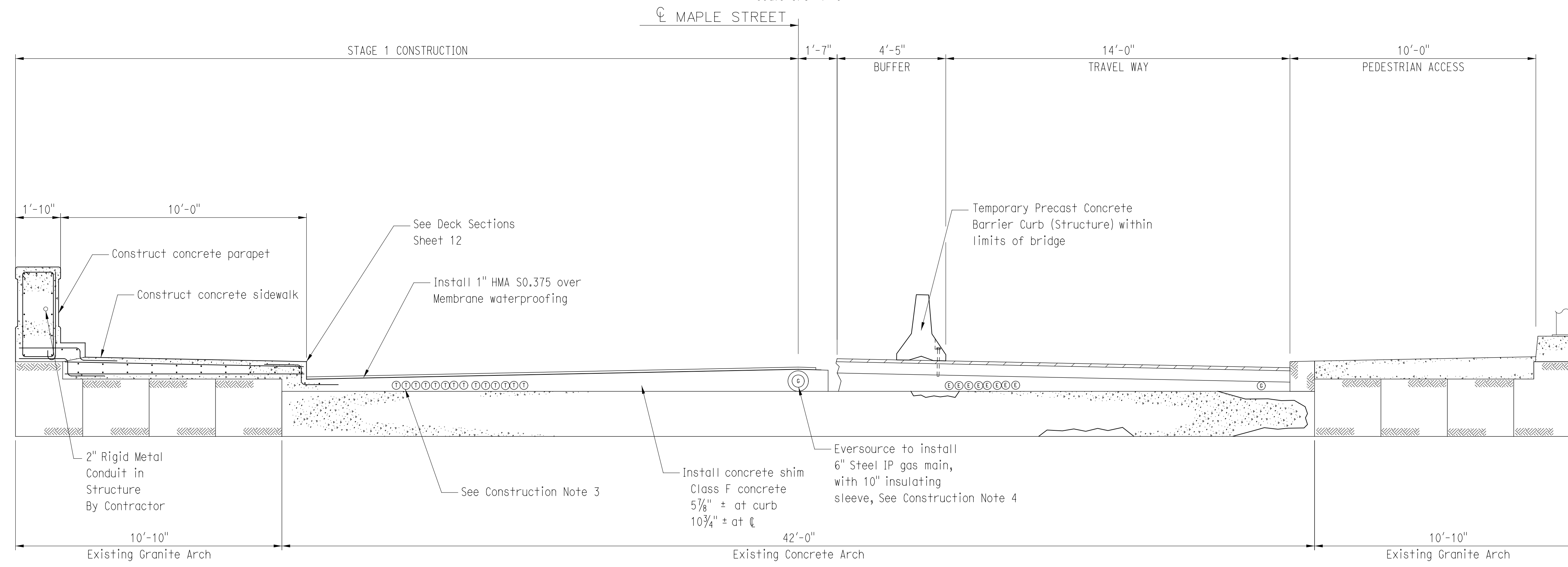
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		DESIGNER/DRAFTER: <b>JSP</b> CHECKED BY: <b>RJF</b> SCALE IN FEET  SCALE 1"=20'	 <b>BOROUGH OF NAUGATUCK</b> DEPARTMENT OF PUBLIC WORKS	 <b>CHA</b> <small>CHRISTOPHER A. HARBOUGH &amp; ASSOCIATES LLP</small> <small>2130 State Street, Suite 212, Rocky Hill, CT 06067-2539</small> <small>March 2007 (214-007) - www.chaengineers.com</small>	PROJECT TITLE: <p style="text-align: center;"><b>MAPLE STREET OVER NAUGATUCK RIVER</b></p>	TOWN: <p style="text-align: center;"><b>NAUGATUCK</b></p>	PROJECT NO. <p style="text-align: center;"><b>9087-4000</b></p>	
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.		Plotted Date: 1/7/2016		Filename: V:\Projects\RCT\16319 Maple Street\CAD\Highway\16319_mpt_sht_02.dgn		DRAWING NO. <p style="text-align: center;"><b>STAGE 2 PLAN</b></p>		SHEET NO. <p style="text-align: center;"><b>22</b> of <b>27</b></p>
REV.	DATE	REVISION DESCRIPTION	SHEET NO.					





**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 FRONTIER. 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. FRONTIER 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. FRONTIER RESERVES THE RIGHT TO REVIEW THE METHOD BEING USED IN SUPPORTING THE STRUCTURE. THE STRUCTURE IS TO BE DESIGNED BY A STATE OF CONNECTICUT LICENSED PROFESSIONAL ENGINEER. THIS WORK SHALL BE PAID UNDER THE "TEMPORARY SUPPORT FOR EXISTING TELEPHONE DUCTS" ITEM. FRONTIER CONTACT: TOM DELORENZO - (203) 238-5202.
2. EVERSOURCE, 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. EVERSOURCE 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 FRONTIER OR EVERSOURCE WILL NOT BE PAID FOR.
6. SEE DECK SECTION, SHEET 12, AND ARCH REPAIR DETAIL, SHEET 18, FOR FURTHER DETAILS.
7. CONTRACTOR SHALL REMOVE EXISTING LIGHT STANDARDS AND ALL ASSOCIATED ELECTRICAL HARDWARE. ALL WORK ASSOCIATED WITH REMOVAL 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, AND CEMENT PAVERS MAY 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. FRONTIER 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. EVERSOURCE 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 SECTIONS, SHEET 12 AND ARCH REPAIR DETAIL, SHEET 18 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 7 AND DECK SECTIONS, SHEET 12 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" ITEMS.

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

BOROUGH OF NAUGATUCK  
 DEPARTMENT OF PUBLIC WORKS

SIGNATURE/BLOCK:  
  
 CHA  
 CROUCH HARBOUR & ASSOCIATES LLP  
 2130 State Route Highway, Suite 212, Rocky Hill, CT 06067-2539  
 (860) 231-4007 • www.chaengineers.com

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

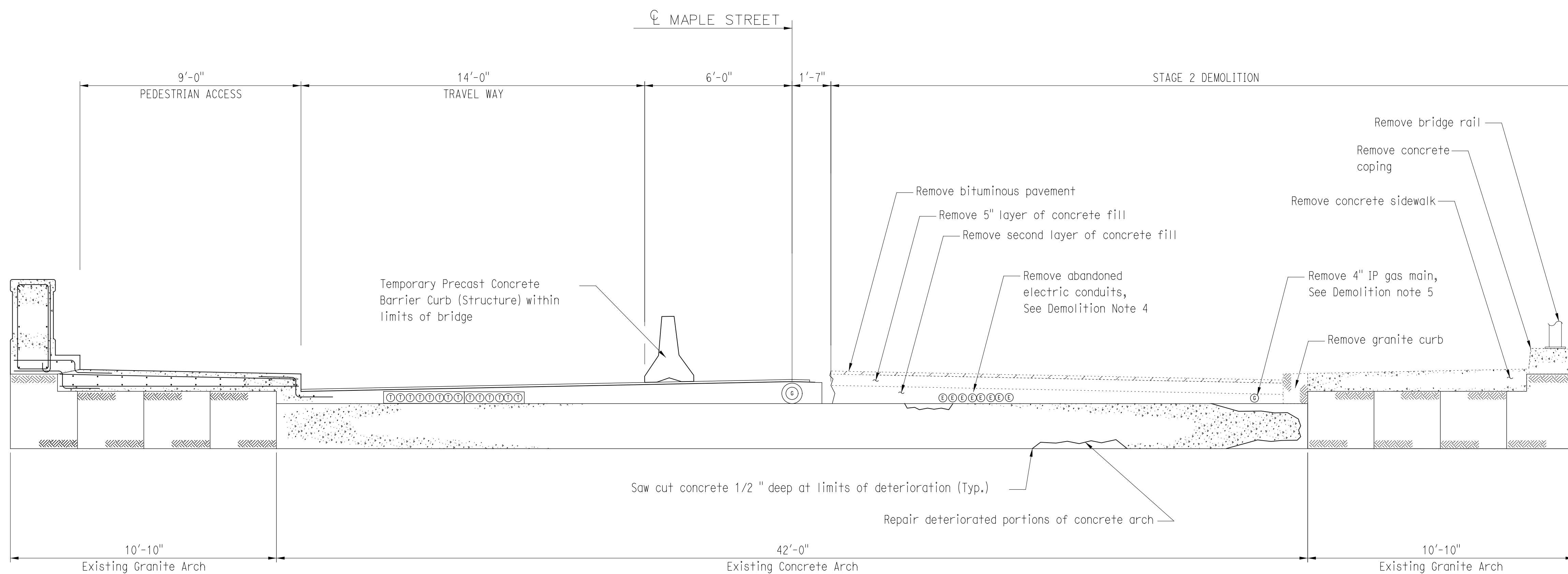
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 PROJECT NO. 9087-4000  
 DRAWING TITLE: STAGE 1 CROSS SECTIONS  
 SHEET NO. 23 of 27

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

Plotted Date: 1/7/2016

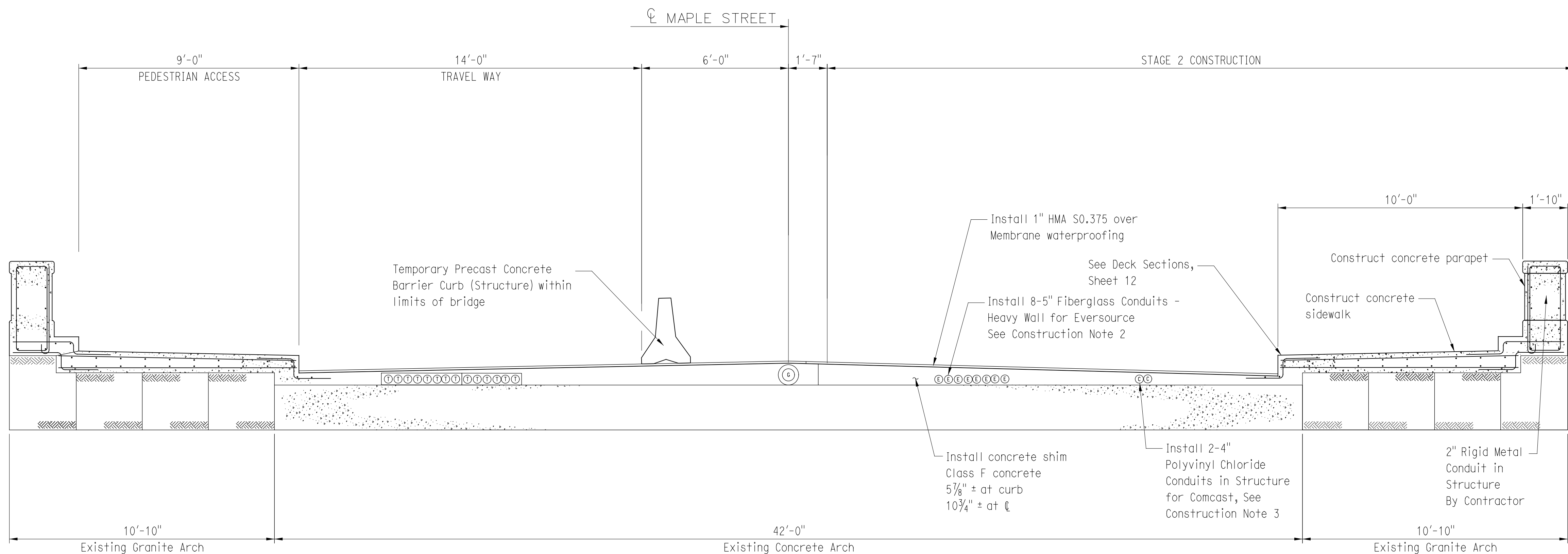
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**STAGES 2A THRU 2C DEMOLITION**

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. EVERSOURCE TO ABANDON CONDUIT DUCT PRIOR TO STAGE 2 DEMOLITION. SEE UTILITY PLAN (SHEET 7) FOR FURTHER DETAILS. CONTACT EVERSOURCE FOR CONFIRMATION PRIOR TO EXCAVATION IN THIS AREA. REMOVAL OF ABANDONED ELECTRIC CONDUITS AND COORDINATION WITH EVERSOURCE SHALL BE INCIDENTAL TO THE "REMOVAL OF EXISTING MASONRY" ITEM.
5. EVERSOURCE 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 SECTIONS, SHEET 12 AND ARCH REPAIR DETAIL, SHEET 18 FOR FURTHER DETAILS.
7. CONTRACTOR SHALL REMOVE EXISTING LIGHT STANDARDS AND ALL ASSOCIATED ELECTRICAL HARDWARE. ALL WORK ASSOCIATED WITH REMOVAL 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, 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 7 AND DECK SECTIONS, SHEET 12 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 IN THE "2" RIGID METAL CONDUIT" ITEMS. ALL FITTINGS AND JOINTS SHALL BE APPROVED, BY THE MANUFACTURER, FOR USE WITH THE TYPE OF CONDUIT.
5. SEE DECK SECTIONS, SHEET 12 AND ARCH REPAIR DETAIL, SHEET 18 FOR FURTHER DETAILS.

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



PROJECT TITLE: MAPLE STREET OVER NAUGATUCK RIVER

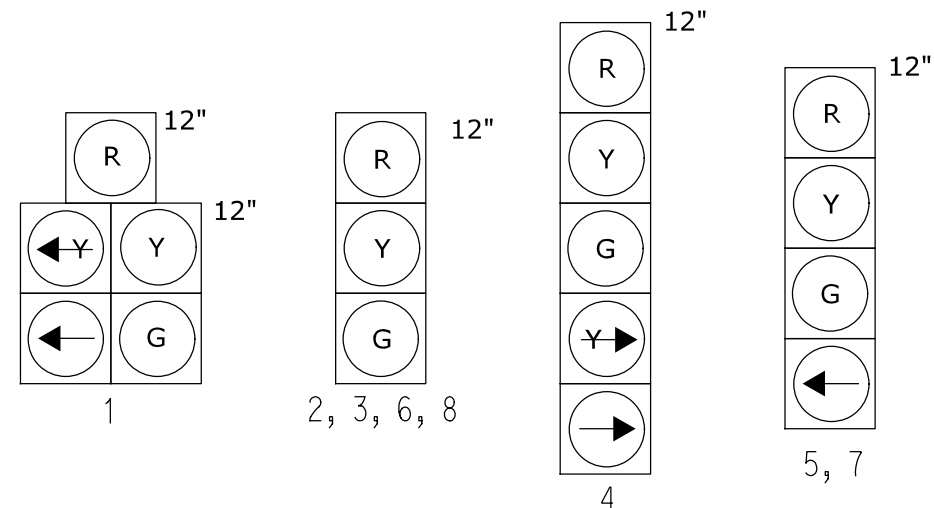
TOWN: NAUGATUCK  
 PROJECT NO.: 9087-4000  
 DRAWING TITLE: STAGE 2 CROSS SECTIONS  
 SHEET NO.: 24 of 27

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

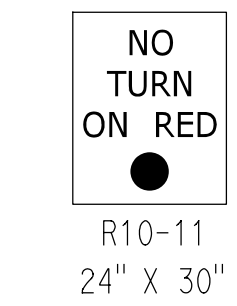
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**EXISTING SIGNAL FACES:**



**PROPOSED LED BLANK OUT SIGN**



INSTALL PRE-EMPTION DETECTOR ON EXISTING UTILITY POLE

PRE-EMPTION DATA	
EMERGENCY VEHICLE	PRE-EMPT 1
PRIORITY	YES
DET LOCK	YES
DELAY	0
ALT MIN GRN	5
ALT YELLOW	PARENT
ALT RED	12
ALT PED CLR	14
HOLD GREEN	10
HOLD YELLOW	3
HOLD RED	1
HOLD PHASE	PRE-EMPTION 1
EXIT PHASE	NEXT SCHEDULED PHASE
EXIT CALL	NONE

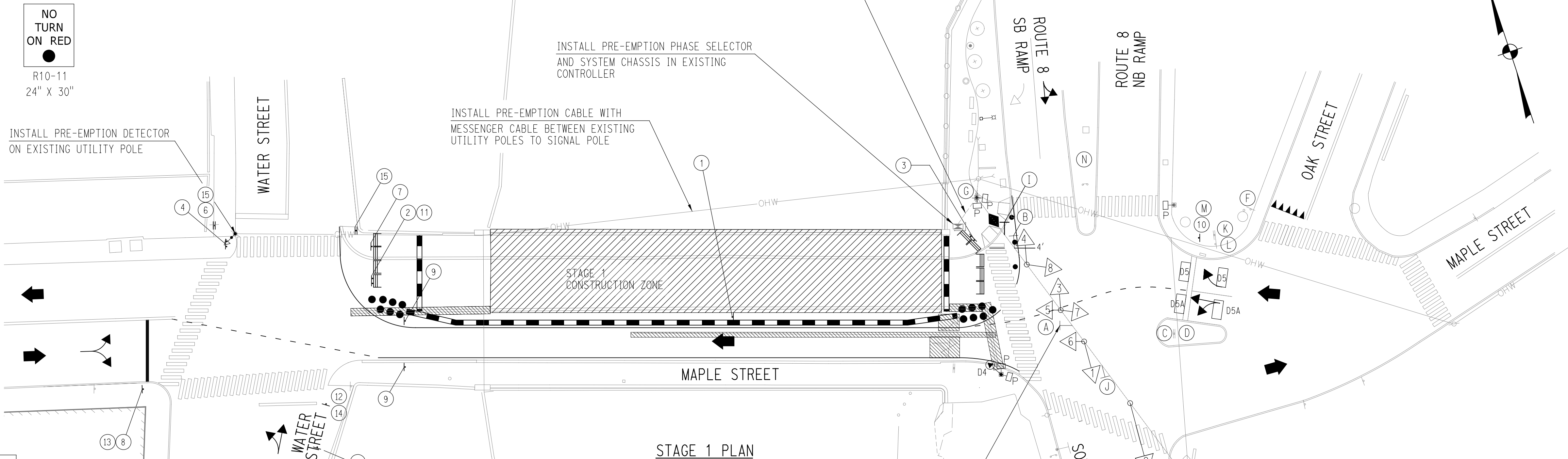
DETECTORS			
IDENT	TYPE	MODE	NOTES
D1	LOOP	PRESENCE	EXISTING - TO REMAIN
D2	LOOP	PRESENCE	EXISTING - TO REMAIN (NOT SHOWN ON PLAN)
D2A	LOOP	PRESENCE	EXISTING - TO REMAIN (NOT SHOWN ON PLAN)
D4	MICROWAVE	PRESENCE	EXISTING - DISABLE DURING STAGED CONSTRUCTION
D5	LOOP	PRESENCE	EXISTING - TO REMAIN
D5A	LOOP	PRESENCE	EXISTING - TO REMAIN

**STAGE 1 NOTES:**  
 1. SEE STAGE 1 PLAN, SHEET 21, FOR STAGE 1 MAINTENANCE & PROTECTION OF TRAFFIC DETAILS.

**TEMPORARY PHASING & TIMING PLAN (ConnDOT SIGNAL #087-205)**

NTOR	FLASH	PHASE 1***				PHASE 2				PHASE 3				PHASE 5				PRE-EMPTION 1*			
		GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL		
F	1	R	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R		
A	2	R	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R		
C	3	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R		
E	4	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R		
#	5	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R		
	6	R	R	R	R	R	R	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	R	R	R	R	R	R		
	8	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R		
	SIGN 1	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF		
	P	OFF	DW	DW	DW	DW	W0	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW		
INTERVALS	MIN GRN	5				15				14				7				10			
	WALK																				
	PED CLR																				
	VEH EXT	1				3.5								1.5							
	MAX 1	9				21								12				10			
	MAX 2	9				32								16				10			
	YELLOW					3.2				0.1				3.2				3			
	RED					1.0				0				1.0				1.0			
	PRE-EMPTION**					12				0				12							
	ADD INIT																				
MODE	MIN RECALL				MIN RECALL				NON-LOCK				NON-LOCK				ON/OMIT				

NOTE: MAX 2 SHALL APPLY FROM 1530-1830 M-F. MAX 1 SHALL APPLY AT ALL OTHER TIMES.  
 \* THE NO TURN ON RED BLANK OUT SIGN FOR THE SB RAMP (SIGN 1), SHALL BE ACTIVATED FOR PRE-EMPTION PHASE 1 ONLY.  
 \*\* THE CONTROLLER SHALL USE THE PRE-EMPTION RED TIMES PRIOR TO ENTERING THE PRE-EMPTION PHASE 1.  
 \*\*\* WHEN ENTERING PRE-EMPTION PHASE 1 FACES 1 AND 2 SHALL USE PHASE 2 CLEARANCES.

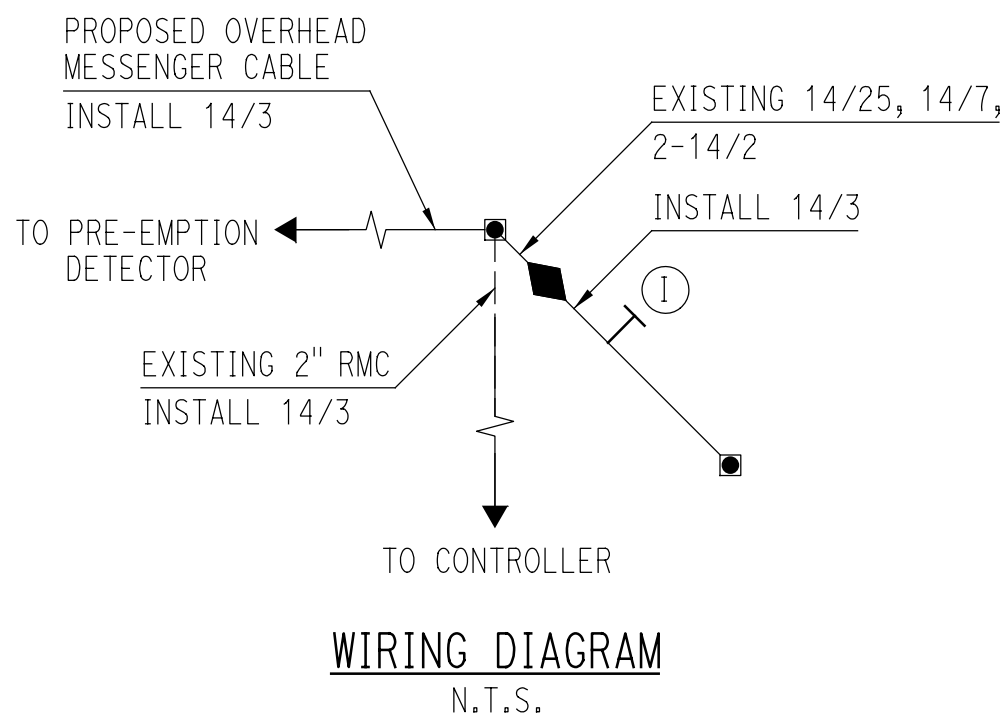


**TEMPORARY SIGNAL NOTES:**

- 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 (UP TO 7 LOCATIONS) AS NECESSARY DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. TIMINGS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO IMPLEMENTATION.
- ALL EXISTING TRAFFIC SIGNAL EQUIPMENT AND OPERATIONS SHALL BE RESTORED TO THEIR CURRENT CONDITION ONCE CONSTRUCTION AND EXISTING TRAFFIC PATTERNS ARE RESTORED. SEE SIGNAL PLAN OF RECORD IN CONTRACT DOCUMENTS FOR EXISTING LAYOUT.
- SEE STAGE 1 AND STAGE 2 PLANS, SHEETS 21 AND 22 FOR MAINTENANCE AND PROTECTION OF TRAFFIC DETAILS, INCLUDING TEMPORARY PAVEMENT MARKINGS.
- SPAN MOUNTED SIGN A (1 LOCATION) SHALL BE BAGGED AND REMAIN BAGGED FOR THE DURATION OF STAGED CONSTRUCTION.
- THE ARROW INDICATIONS ON SIGNAL FACE 4 SHALL BE DISABLED AND BAGGED AND REMAIN DISABLED AND BAGGED FOR THE DURATION OF STAGED CONSTRUCTION.
- REMOVE ALL CONFLICTING PAVEMENT MARKINGS, SEE STAGE 1 AND STAGE 2 PLANS, SHEETS 21 AND 22 FOR MAINTENANCE AND PROTECTION OF TRAFFIC DETAILS. ALL REMOVED MARKINGS SHALL BE RE-INSTALLED UPON COMPLETION OF CONSTRUCTION.
- MICROWAVE DETECTOR D4 SHALL BE DISABLED FOR THE DURATION OF CONSTRUCTION.
- 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.
- PRE-EMPTION EQUIPMENT SHALL BE COMPATIBLE WITH THE NAUGATUCK FIRE DEPARTMENT'S EMITTERS (OPTICOM SYSTEM MODEL \*3M592) AND PROVIDED IN ACCORDANCE WITH THE SPECIAL PROVISIONS (ITEM NUMBERS: 1108724A-PHASE SELECTOR, 1112410A-DETECTOR (TYPE A), 1112470A-PRE-EMPTION SYSTEM CHASSIS, 1113550A-DETECTOR CABLE (OPTICAL)).
- THE LED BLANK OUT SIGN SHALL BE PROVIDED IN ACCORDANCE WITH SPECIAL PROVISION ITEM NO. 1116100A-INTERNALLY ILLUMINATED SIGN (LED).
- SEE STAGE 1 PLAN FOR SIGN LEGEND FOR SIGNS 1 THROUGH 15.

**SIGN LEGEND:**

- (A) BAG FOR DURATION OF CONSTRUCTION MANDATORY LEFT TURN R3-5
- (B) EXISTING - MAINTAIN 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 NO TURN ON RED R10-11 (LED BLANK OUT SIGN)
- (J) EXISTING - MAINTAIN MANDATORY LEFT TURN 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
- (N) EXISTING - MAINTAIN KEEP RIGHT R4-7



NOTE: ALL EXISTING WIRING TO REMAIN.  
 ABBREVIATIONS:  
 14/3 - 3 CONDUCTOR CABLE, 14 AWG

**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 PEDESTRIAN SIGNAL FACE
- EXISTING CONTROLLER
- MICROWAVE DETECTOR
- OPTICAL DETECTOR
- EXISTING CABLE CLOSURE
- CONSTRUCTION ZONE
- EXISTING PAVEMENT MARKINGS - TO BE REMOVED
- EXISTING CONDUIT

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

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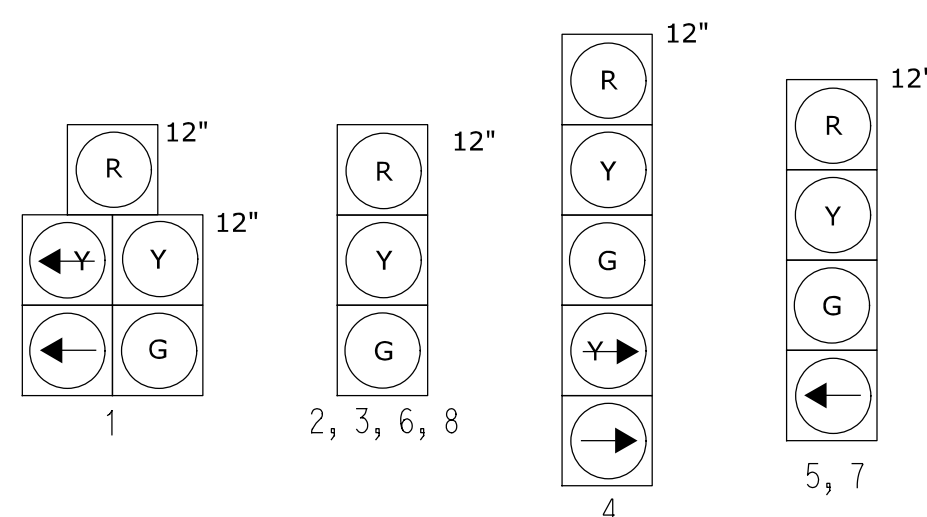
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PROJECT TITLE:  
**MAPLE STREET OVER NAUGATUCK RIVER**

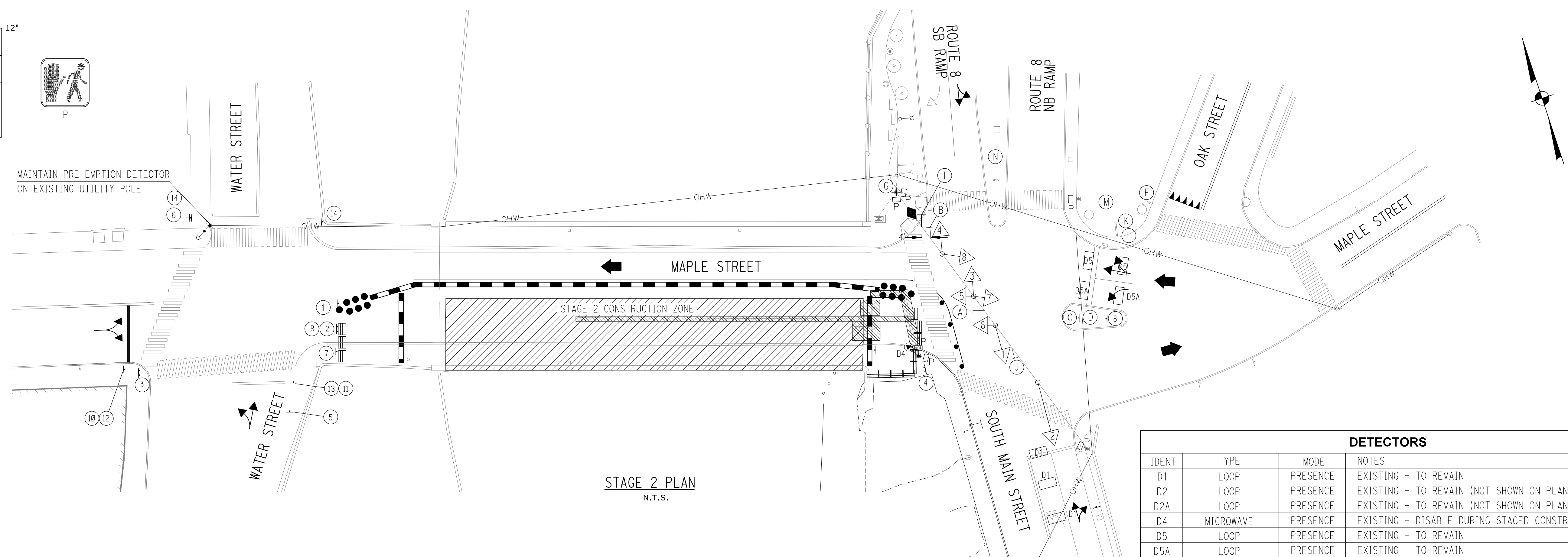
TOWN: NAUGATUCK  
 PROJECT NO. 9087-4000  
 DRAWING NO. 25 of 27  
 SHEET NO. 25 of 27



**EXISTING SIGNAL FACES:**



MAINTAIN PRE-EMPTION DETECTOR ON EXISTING UTILITY POLE



**STAGE 2 PLAN**  
N.T.S.

**SIGN LEGEND:**

- (A) BAG FOR DURATION OF CONSTRUCTION MANDATORY LEFT TURN R3-5
- (B) EXISTING - MAINTAIN MANDATORY RIGHT TURN R3-5
- (C) EXISTING - MAINTAIN KEEP RIGHT R4-7
- (D) EXISTING - MAINTAIN KEEP RIGHT R4-7
- (E) EXISTING - MAINTAIN SIGNAL AHEAD/WRONG WAY (NOT SHOWN) 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 WRONG WAY (2) (NOT SHOWN) R5-1 (2)
- (I) INSTALL PRIOR TO STAGE ONE NO TURN ON RED R10-11 (LED BLANK OUT SIGN)
- (J) EXISTING - MAINTAIN MANDATORY LEFT TURN 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
- (N) EXISTING - MAINTAIN KEEP RIGHT R4-7

**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
- ⊙ OPTICAL DETECTOR
- ◆ EXISTING CABLE CLOSURE
- ▨ CONSTRUCTION ZONE
- ▨ EXISTING PAVEMENT MARKINGS - TO BE REMOVED
- EXISTING CONDUIT

PRE-EMPTION DATA	
	EMERGENCY VEHICLE
	PRE-EMPT 1
PRIORITY	YES
DET LOCK	YES
DELAY	0
ALT MIN GRN	5
ALT YELLOW	PARENT
ALT RED	12
ALT PED CLR	14
HOLD GREEN	10
HOLD YELLOW	3
HOLD RED	1
HOLD PHASE	PRE-EMPTION 1
EXIT PHASE	NEXT SCHEDULED PHASE
EXIT CALL	NONE

- STAGE 2 NOTES:**
- SEE STAGE 2 PLAN, SHEET 22 FOR STAGE 2 MAINTENANCE & PROTECTION OF TRAFFIC DETAILS.
  - 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.
  - SEE STAGE 1 TRAFFIC SIGNAL PLAN FOR ADDITIONAL SIGNAL DETAILS.
  - SEE STAGE 2 PLAN FOR SIGN LEGEND FOR SIGNS (I) THROUGH (14).

DETECTORS			
IDENT	TYPE	MODE	NOTES
D1	LOOP	PRESENCE	EXISTING - TO REMAIN
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 STAGED CONSTRUCTION
D5	LOOP	PRESENCE	EXISTING - TO REMAIN
D5A	LOOP	PRESENCE	EXISTING - TO REMAIN

**TEMPORARY PHASING & TIMING PLAN (ConnDOT SIGNAL #087-205)**

NTOR	PHASE 1***		PHASE 2		PHASE 3			PHASE 5			PRE-EMPTION 1*		
	FLASH	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL
F	1	R	← G	← G	G	Y	R	R	R	R	R	R	R
A	2	R	G	G	G	Y	R	R	R	R	R	R	R
C	3	R	R	R	R	G	Y	R	R	R	R	R	R
E	4	R	R	R	R	G	Y	R	R	R	R	R	R
#	5	R	R	R	R	R	R	R	R	R	R	R	R
	6	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
SIGN I	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	NTOR
P	OFF	← DW	→ DW	→ DW	← DW	← DW	← DW	← DW	← DW	← DW	← DW	← DW	← DW
INTERVALS	MIN GRN	5		15		14		7		10			
	WALK					7							
	PED CLR					14							
	VEH EXT	1		3.5				1.5					
	MAX 1	9		22				16		10			
	MAX 2	9		32				16		10			
	YELLOW		3.2		3.2		0.1		3.2		3		1.0
	RED			1.0		2.8		0		1.0			1.0
	PRE-EMPTION **			12		12		0		12			
	ADD INIT												
	MAX INIT												
	TBR												
	TTR												
	MIN GAP												
	MODE		MIN RECALL		MIN RECALL THIS PHASE		NON-LOCK		NON-LOCK		ON/OMIT		
	INI START												

NOTE: MAX 2 SHALL APPLY FROM 1530-1830 M-F. MAX 1 SHALL APPLY AT ALL OTHER TIMES  
 \* THE NO TURN ON RED BLANK OUT SIGN FOR THE SB RAMP (SIGN I), SHALL BE ACTIVATED FOR PRE-EMPTION PHASE 1 ONLY.  
 \*\* THE CONTROLLER SHALL USE THE PRE-EMPTION RED TIMES PRIOR TO ENTERING THE PRE-EMPTION PHASE 1.  
 \*\*\* WHEN ENTERING PRE-EMPTION PHASE 1 FACES 1 AND 2 SHALL USE PHASE 2 CLEARANCES.

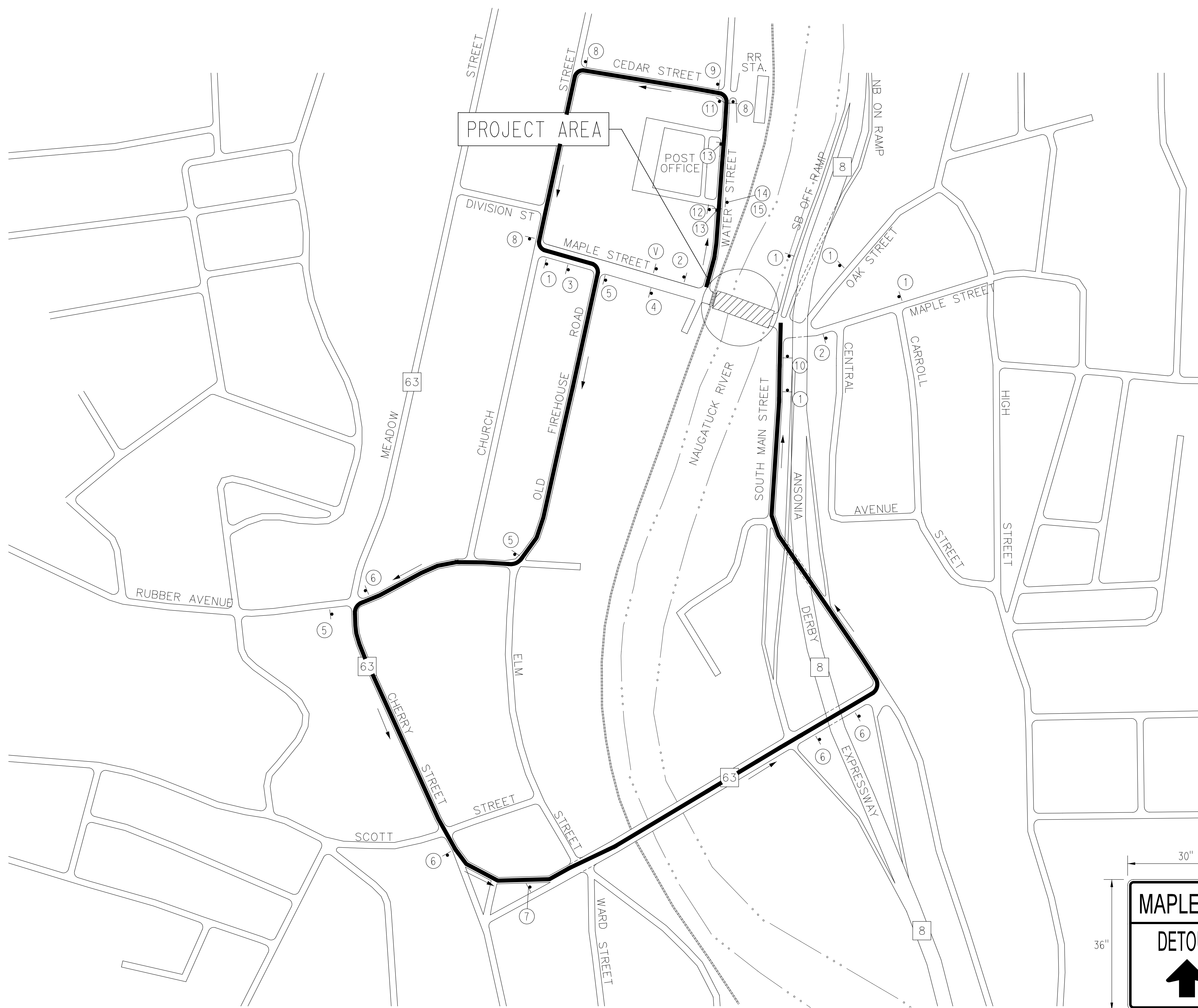
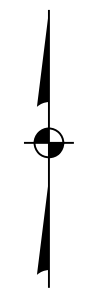
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REV.	DATE	REVISION DESCRIPTION	SHEET NO.													

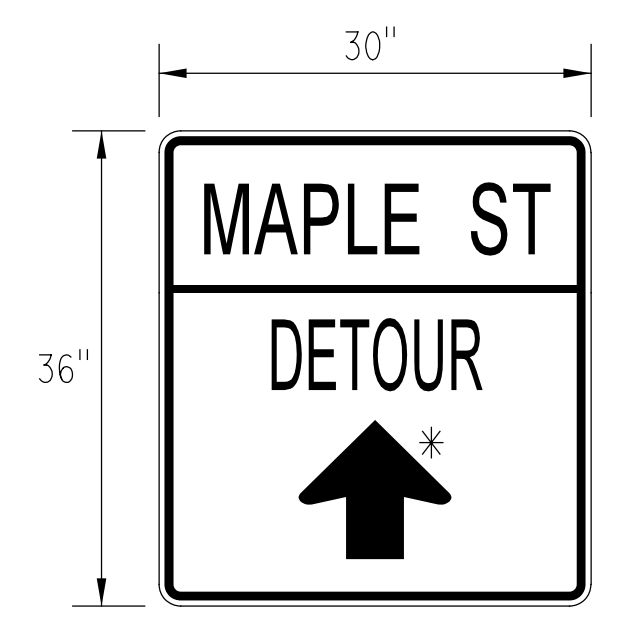
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**EASTBOUND DETOUR ROUTE**  
NOT TO SCALE



**DETOUR SIGN DETAILS**

\*VARIABLE DETOUR DIRECTION.  
SEE SIGN LEGEND FOR DETAILS.

**NOTES:**

1. SIGN TEXT AND LEGEND AND PLACEMENT OF ALL TEMPORARY TRAFFIC CONTROL AND DETOUR SIGNS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) OR AS DIRECTED BY THE ENGINEER.
2. SEE STAGE 1 AND STAGE 2 PLANS, SHEETS 21 AND 22 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.
5. THE SOUTHBOUND LANE OF WATER STREET BETWEEN THE POST OFFICE ENTRANCE AND MAPLE STREET IS TO BE CLOSED TO THROUGH TRAFFIC DURING STAGED CONSTRUCTION. TYPE III BARRICADES SHALL BE PLACED ACROSS THE LANE IMMEDIATELY SOUTH OF BOTH POST OFFICE DRIVEWAYS.
6. VARIABLE MESSAGE SIGN IS TO BE FURNISHED, INSTALLED, MAINTAINED, AND REMOVED BY THE BOROUGH. THE SIGN SHALL BE INSTALLED APPROXIMATELY 2 WEEKS PRIOR TO THE BEGINNING OF STAGE 1 CONSTRUCTION TO ALERT MOTORISTS OF THE START OF THE EASTBOUND STREET CLOSURE AND DETOUR. THE SIGN LOCATION AND TEXT ARE TO BE DETERMINED BY THE ENGINEER.

**SIGN LEGEND:**

- ① ROAD WORK AHEAD  
SIGN NO. 80-9603 (36" X 36")
- ② END ROAD WORK  
SIGN NO. 80-9612 (36" X 18")
- ③ ROAD CLOSED AHEAD  
SIGN NO. 80-9810 (36" X 36")
- ④ DETOUR AHEAD  
SIGN NO. 80-9805 (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 DETOUR/LEFT ARROW  
SIGN NO. 80-9710 (30" X 24")
- ⑨ DETOUR/AHEAD ARROW  
SIGN NO. 80-9710 (30" X 24")
- ⑩ END DETOUR  
SIGN NO. 80-9708 (24" X 18")
- ⑪ STREET CLOSED/TO/THRU TRAFFIC  
SIGN NO. 80-9081 (60" X 30")  
DETOUR (RIGHT)  
SIGN NO. 80-9701R (48" X 18")
- ⑫ RIGHT TURN PROHIBITION  
SIGN NO. 31-1604 (24" X 24")
- ⑬ STREET/CLOSED (MOUNT ON TYPE III BARRICADE)  
SIGN NO. 80-9080 (48" X 30")
- ⑭ DETOUR/LEFT ARROW  
SIGN NO. 80-9702L (48" X 18")
- ⑮ ONE-WAY/LEFT ARROW  
SIGN NO. 31-1188 (36" X 12")
- Ⓥ VARIABLE MESSAGE SIGN (SEE NOTE 6)

POSITION SIGNS TO BE VISIBLE TO  
MOTORISTS EXITING RR STATION DRIVEWAY

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DESIGNER/DRAFTER: **JSP**  
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**BOROUGH OF NAUGATUCK**  
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TOWN: **NAUGATUCK**  
 PROJECT NO. **9087-4000**  
 DRAWING NO. **DETOUR PLAN**  
 SHEET NO. **27** of **27**

PROJECT NO.	9087-4000
DRAWING NO.	DETOUR PLAN
SHEET NO.	27 of 27