

PROJECT ID: 5992-07-50

COUNTY: DANE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

MILWAUKEE STREET BRIDGE & APPROACHES CITY OF MADISON

(WEST BRANCH STARKWEATHER CREEK)
**LOCAL STREET
DANE COUNTY**

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
5992-07-50		

ORDER OF SHEETS

Section No. 1	Title
Section No. 2	Typical Sections and Details
Section No. 3	Estimate of Quantities
Section No. 3	Miscellaneous Quantities
Section No. 4	Right of Way Plat
Section No. 5	Plan and Profile
Section No. 6	Standard Detail Drawings
Section No. 7	Sign Plates
Section No. 8	Structure Plans
Section No. 9	Computer Earthwork Data
Section No. 9	Cross Sections

TOTAL SHEETS =



BEGIN PROJECT
STA. 8+25
Y= 401,559.84
X= 2,176,572.91

STATE PROJECT NUMBER
5992-07-50

DESIGN DESIGNATION

A.D.T. (2005)	=	11,325
A.D.T. (2025)	=	13,350
D.H.V.	=	1535
D.	=	60/40
T.	=	3.3%
DESIGN SPEED	=	30 MPH
ESALS	=	1,124,200

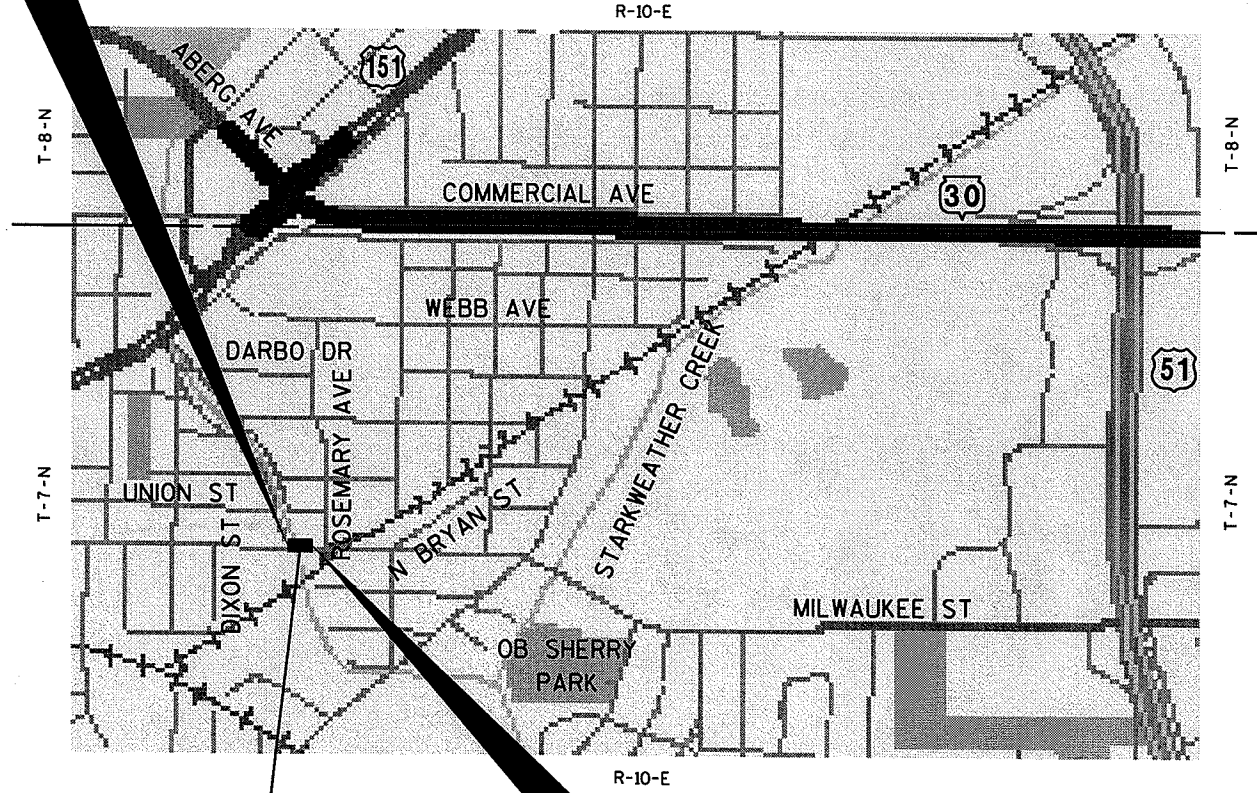
CONVENTIONAL SYMBOLS

PLAN

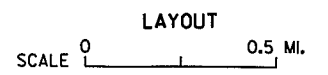
CORPORATE LIMITS	
PROPERTY LINE	
LOT LINE	
LIMITED HIGHWAY EASEMENT	
EXISTING RIGHT OF WAY	
PROPOSED OR NEW R/W LINE	
SLOPE INTERCEPT	
REFERENCE LINE	
EXISTING CULVERT	
PROPOSED CULVERT (Box or Pipe)	
COMBUSTIBLE FLUIDS	
MARSH AREA	
WOODED OR SHRUB AREA	
HIGH VOLTAGE CAUTION	

PROFILE

GRADE LINE	
ORIGINAL GROUND	
MARSH OR ROCK PROFILE (To be noted as such)	
SPECIAL DITCH	
GRADE ELEVATION	
CULVERT (Profile View)	
UTILITIES	
ELECTRIC	
FIBER OPTIC	
GAS	
SANITARY SEWER	
STORM SEWER	
TELEPHONE	
WATER	
UTILITY PEDESTAL	
POWER POLE	
TELEPHONE POLE	



STRUCTURE B-13-577 **END PROJECT STA. 11+70**



TOTAL NET LENGTH OF CENTERLINE = 0.065 MI.

Coordinates on this plan are referenced to the Wisconsin State Plane Coordinate System (WSPCS), 'South' Zone.

APPROVAL BY
CITY ENGINEER

(Date) (Signature)

APPROVED BY THE
CITY OF MADISON
COMMON COUNCIL

(Date) City Clerk

ORIGINAL PLANS PREPARED BY

MSA

PROFESSIONAL SERVICES
TRANSPORTATION • MUNICIPAL • REMEDIATION
DEVELOPMENT • ENVIRONMENTAL

2901 International Lane, Suite 300, Madison, WI 53704
608-242-7779 1-800-446-0679 Fax: 608-242-5664

DATE: _____
(Professional Engineer)

**STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION**

PREPARED BY

Surveyor MSA PROFESSIONAL SERVICES, INC.

Designer MSA PROFESSIONAL SERVICES, INC.

Management Consultant KJOHNSON ENGINEERS, INC.

C.O. Examiner _____

APPROVED FOR DISTRICT OFFICE

DATE: _____
(Management Consultant Signature)

E

GENERAL NOTES

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE CITY OF MADISON DATUM.
USGS DATUM = CITY OF MADISON DATUM + 845.60.

TYPICAL FINISHED SECTIONS SHOW THE GENERAL ROADWAY FEATURES THROUGHOUT THE PROJECT. PAVEMENT SLOPES, BORDER SLOPES, ETC., MAY VARY WITHIN THE STATION LIMITS OF THE STATION SECTION. SEE DETAIL SHEETS AND CROSS SECTIONS FOR SLOPES AND GRADES.

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

WHEN THE QUANTITY OF THE ITEM OF BASE AGGREGATE IS MEASURED FOR PAYMENT BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE COURSE SHOWN ON THE PLANS IS APPROXIMATE, AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

PRIOR TO ROAD CLOSURE THE CONTRACTOR SHALL PROVIDE THE ENGINEER, THE CITY OF MADISON POLICE DEPARTMENT, AND THE DANE COUNTY SHERIFF'S DEPARTMENT WITH THE NAME AND TELEPHONE NUMBER OF A LOCAL PERSON RESPONSIBLE FOR THE EMERGENCY MAINTENANCE OF TRAFFIC CONTROL.

PRIOR TO ORDERING DRAINAGE PIPES, THE CONTRACTOR SHALL VERIFY RELATED DRAINAGE INFORMATION IN THE PLANS AND RESOLVE ALL CONFLICT VERIFICATIONS BY WAY OF ULO'S WITH THE ENGINEER.

ALL LENGTHS ARE IN FEET EXCEPT AS SHOWN.

STORM SEWER LENGTHS ARE TO CENTER OF STRUCTURES.

DEPTH OF INLETS AND MANHOLES SHOWN ON THE MISCELLANEOUS QUANTITIES SHEET IS FROM TOP OF BASE TO INVERT.

OFFSETS FOR TYPE 3 INLETS ARE GIVEN TO THE CENTER OF STRUCTURE.

ELEVATIONS SHOWN ON THE STORM SEWER SHEETS ARE AT THE FLANGE OF THE CASTING. A MINIMUM 6 INCHES OF ADJUSTMENT RINGS REQUIRED, UNLESS OTHERWISE NOTED.

CONCRETE PIPE SHALL HAVE JOINT TIES INSTALLED ON THE LAST TWO PIPE JOINTS AND THE ENDWALL JOINT AT THE DISCHARGE END.

MISCELLANEOUS REMOVAL ITEMS REQUIRING RESTORATION OF CONCRETE OR ASPHALTIC CONCRETE DRIVEWAYS, SIDEWALKS, OR SIDE STREETS SHALL BE REMOVED TO AN EXISTING JOINT OR SAWED AS DETERMINED BY THE ENGINEER, OR AS SHOWN ON THE PLANS.

DRIVEWAYS SHALL BE REPLACED IN KIND.

THE EXACT LOCATION AND WIDTH OF DRIVEWAYS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE LIMITS OF PAVEMENT REMOVAL ON SIDE STREETS IS APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD BY THE ENGINEER.

ALL CONCRETE DRIVEWAYS AND SIDEWALKS ACROSS DRIVEWAYS SHALL BE 7" THICK AND SHALL BE PAID FOR AS A CONCRETE DRIVEWAY.

PROOF ROLLING OF SUBBASE IS REQUIRED BEFORE PLACEMENT OF BASE COURSE & IS INCIDENTAL TO COMMON EXCAVATION. PROOF ROLLING SHALL BE WITNESSED BY THE ENGINEER.

RADIUS DIMENSIONS FOR THE CURB AND GUTTER ARE TO THE CURB FLANGE.

THE CLEAR ZONE BEHIND CURB AND GUTTER IS 2 FEET FROM THE FACE OF THE CURB.

EROSION CONTROL FEATURES TO BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER AND IN PLACE PRIOR TO START OF CONSTRUCTION.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY AND PLE ARE TO BE COVERED WITH TOPSOIL, FERTILIZER (TYPE B), SEED AND MULCH, AS DIRECTED BY THE ENGINEER.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND ALL OTHER UTILITIES IN THE VICINITY OF THE PROJECT TO LOCATE THEIR FACILITIES AT LEAST 3 WORKING DAYS PRIOR TO BEGINNING WORK.

THE 5 INCH ASPHALTIC CONCRETE PAVEMENT TYPE E-3 SHALL BE CONSTRUCTED IN TWO LAYERS:

		NOM MAX SIZE GRADATION
5-INCH	ONE 2" UPPER LAYER	1/2"
	ONE 3" LOWER LAYER	3/4"

ALL STRUCTURES CALLED OUT AS FIELD POUR SHALL BE FIELD POURED. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD POUR) SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

A 30% EXPANSION FACTOR WAS USED TO CALCULATE FILL QUANTITIES.

THE DEPARTMENT OF TRANSPORTATION WILL FURNISH A BENCHMARK MONUMENT FOR THE STRUCTURE TO BE INSTALLED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.

STANDARD DETAIL DRAWINGS

- 8A5-16a INLET COVERS TYPE A, H, A-S, & H-S
- 8A5-16d INLET COVER, TYPE Z MANHOLE COVERS, TYPE K, J, J-S, L & M
- 8B6-3 MANHOLES TYPE 1
- 8C1-5 INLETS TYPE 1, 2, 3 & 4
- 8D1-13 CONCRETE CURB, CONCRETE CURB & GUTTER AND PAVEMENT TIES
- 8D5-9a CURB RAMPS TYPES 1, 2, AND 3
- 8D5-9b CURB RAMPS TYPE 1-A
- 8E8-3 TYPICAL INSTALLATIONS OF EROSION BALES/TEMPORARY DITCH CHECKS
- 8E9-5 SILT FENCE
- 8E10-2 INLET PROTECTION TYPE A, B, C AND D
- 8E12-1 SILT SCREEN
- 8F1-11 APRON ENDWALLS FOR CULVERT PIPE
- 8F4-5 JOINT TIES FOR CONCRETE PIPE
- 8F6-4 REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN
- 12A3-7 NAME PLATE (STRUCTURES)
- 13B2-4 CONCRETE PAVEMENT APPROACH SLAB
- 14A2-1 TREE PLANTING DETAIL
- 15C2-4a BARRICADES AND SIGNS FOR MAINLINE CLOSURES
- 15C2-4b BARRICADES AND SIGNS FOR MAINLINE CLOSURES
- 15C2-4c BARRICADES AND SIGNS FOR MAINLINE CLOSURES
- 15C3-1 BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
- 15C8-9a PAVEMENT MARKING (MAINLINE)
- 15C8-10e PAVEMENT MARKING (ISLANDS, STOP LINE & CROSSWALK)
- 15D30-1 TRAFFIC CONTROL, SIDEWALK CLOSURE

ORDER OF TYPICAL SECTION AND DETAIL SHEETS

- GENERAL NOTES, UTILITIES AND STANDARD DETAIL DRAWINGS
- TYPICAL SECTIONS
- CONSTRUCTION DETAILS
- INTERSECTON DETAILS
- STORM SEWER DETAILS
- LANDSCAPING DETAILS
- PERMANENT SIGNING AND PAVEMENT MARKING DETAILS
- LIGHTING DETAILS
- TRAFFIC CONTROL DETAILS

UTILITIES

** INDICATES NOT A MEMBER OF DIGGERS HOTLINE

AT&T
ATTN: DALE MCCOLLOUGH
316 WEST WASHINGTON AVE., ROOM 209
MADISON, WI 53703
(608) 252-1700

CHARTER COMMUNICATIONS
ATTN: DAN GRATZ
5618 ODANA ROAD, SUITE 150
MADISON, WI 53719
(888) 274-3822 EXT. 6655

TOUCH AMERICA/AT&T
ATTN: JIM GOEKE
5261 NW 114TH STREET
SUITE B
GRIMES, IA 50111
(515) 953-6265

MG&E ELECTRICAL
ATTN: MARTY JACOBI
133 BLAIR STREET
MADISON, WI 53701
(888) 252-4785

MG&E GAS
ATTN: RICH SMITH
133 BLAIR STREET
MADISON, WI 53701
(608) 252-1552

SBC
ATTN: JOHN TETLOW
316 WEST WASHINGTON AVE.
ROOM 601
MADISON, WI 53703
(608) 252-2261

US SIGNAL/CHOICE ONE
ATTN: BILL GOODFELLOW
AL MEYER
20 NORTH MONROE AVENUE, NW STE. 450
GRAND RAPIDS, MI 49503
(616) 988-7495

SANITARY SEWER, STORM SEWER:
CITY OF MADISON
ATTN: MIKE DAILEY
210 MARTIN LUTHER KING, JR. BLVD
ROOM 115
MADISON, WI 53710
(608) 266-4058

LIGHTING
CITY OF MADISON-TRAFFIC ENGINEERING
ATTN: DAN DETTMANN
215 MARTIN LUTHER KING, JR. BLVD, ROOM 100
MADISON, WI 53703
(608) 266-6536

WATER MAIN:
DENNIS CAWLEY
523 WEST MAIN STREET
MADISON, WI 53703
(608) 261-9243

STANDARD ABBREVIATIONS

- AC ACRES
- AH AHEAD
- ALUM. ALUMINUM
- A.P. ACCESS POINT
- BK BACK
- BLK BLOCK
- BM BENCHMARK
- CL or C/L CENTERLINE
- CSM CENTRAL ANGLE or DELTA
- D CERTIFIED SURVEY MAP
- E DEGREE OF CURVE
- X EAST
- EB EAST GRID COORDINATE
- ET AL EASTBOUND
- EXIST AND OTHERS
- GN EXISTING
- IP GRID NORTH
- MI IRON PIPE
- L MILE
- L LENGTH
- L LENGTH OF CURVE
- LC LONG CHORD
- LCB LONG CHORD BEARING
- MH MANHOLE
- FT FOOT
- IN INCH
- MON MONUMENT
- N NORTH
- Y NORTH GRID COORDINATE
- NB NORTHBOUND
- NO NUMBER
- PT POINT
- PC POINT OF CURVATURE
- PI POINT OF INTERSECTION
- PT POINT OF TANGENCY
- PL PROPERTY LINE
- POB POINT OF BEGINNING
- R RADIUS
- RP RADIUS POINT
- R RANGE
- RL or R/L REFERENCE LINE
- REOD REQUIRED
- RT RIGHT
- R/W RIGHT-OF-WAY
- RD ROAD
- S SOUTH
- SB SOUTHBOUND
- SO SQUARE
- FT2 SQUARE FEET
- STD STANDARD
- SEC SECTION
- STA STATION
- STR STRUCTURE
- T TANGENT
- TAN TANGENT
- TEMP TEMPORARY
- TLE TEMPORARY LIMITED EASEMENT
- T or TN TOWN
- W WEST
- WB WESTBOUND

DESIGN CONTACT

MSA PROFESSIONAL SERVICES INC.
ATTN: MIKE STATZ, P.E.
2901 INTERNATIONAL LANE, SUITE 300
MADISON, WI 53704
PHONE: 608-242-7779

CITY OF MADISON
ATTN: STEVE SONNTAG
CITY-COUNTY BUILDING ROOM 115
210 MARTIN LUTHER KING, JR. BLVD.
MADISON, WI 53709
(608) 267-1997

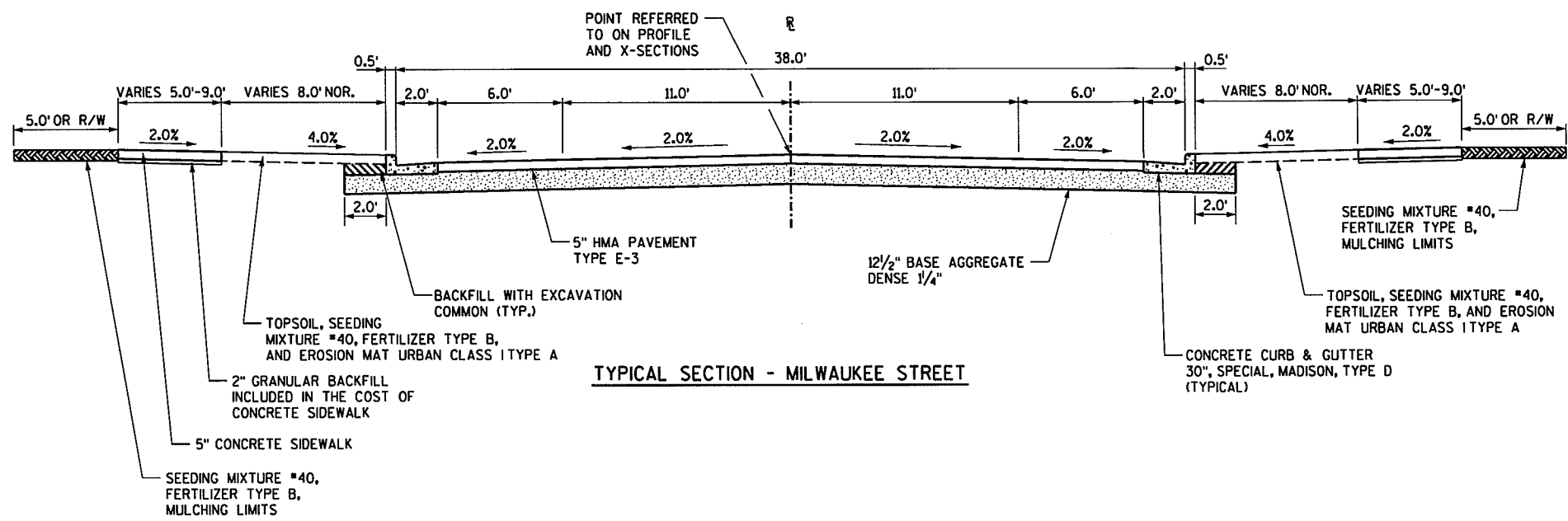
DNR LIAISON

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
ATTN: CATHY BLESER
ENVIRONMENTAL ANALYSIS & REVIEW
3911 FISH HATCHERY ROAD
FITCHBURG, WI 53711
PHONE: (608) 275-3308

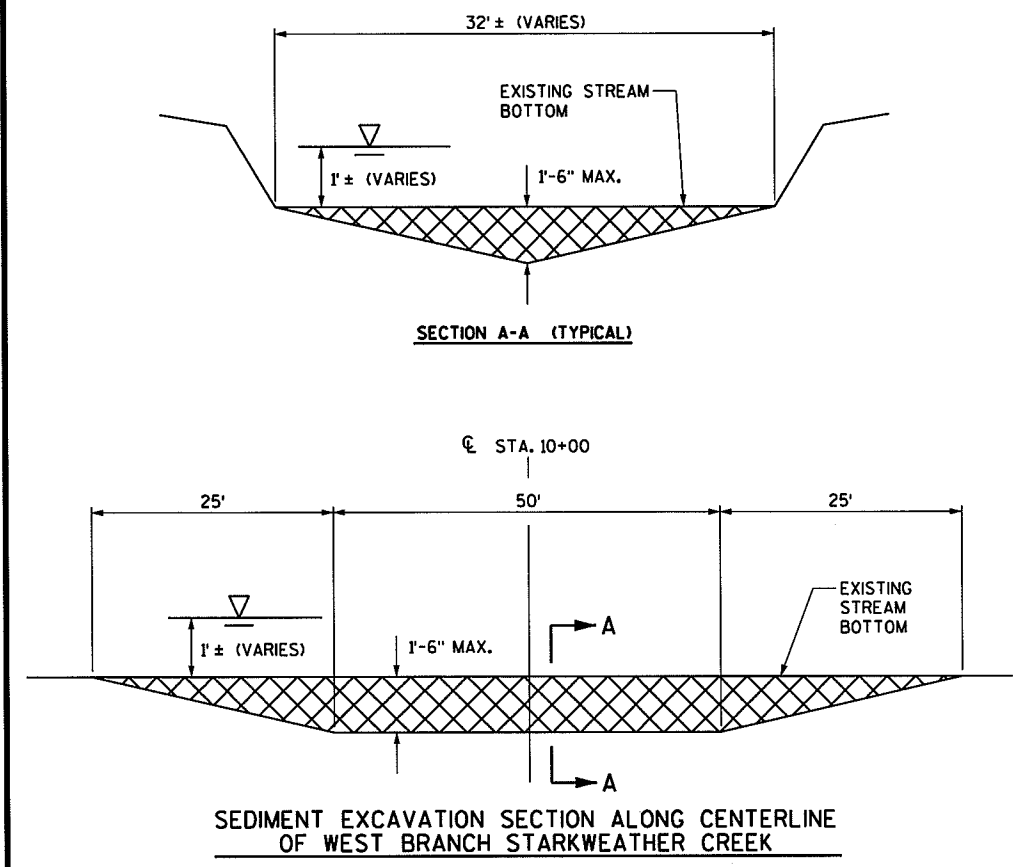


Toll Free (800) 242-8511
Milwaukee Area (414) 259-1181
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

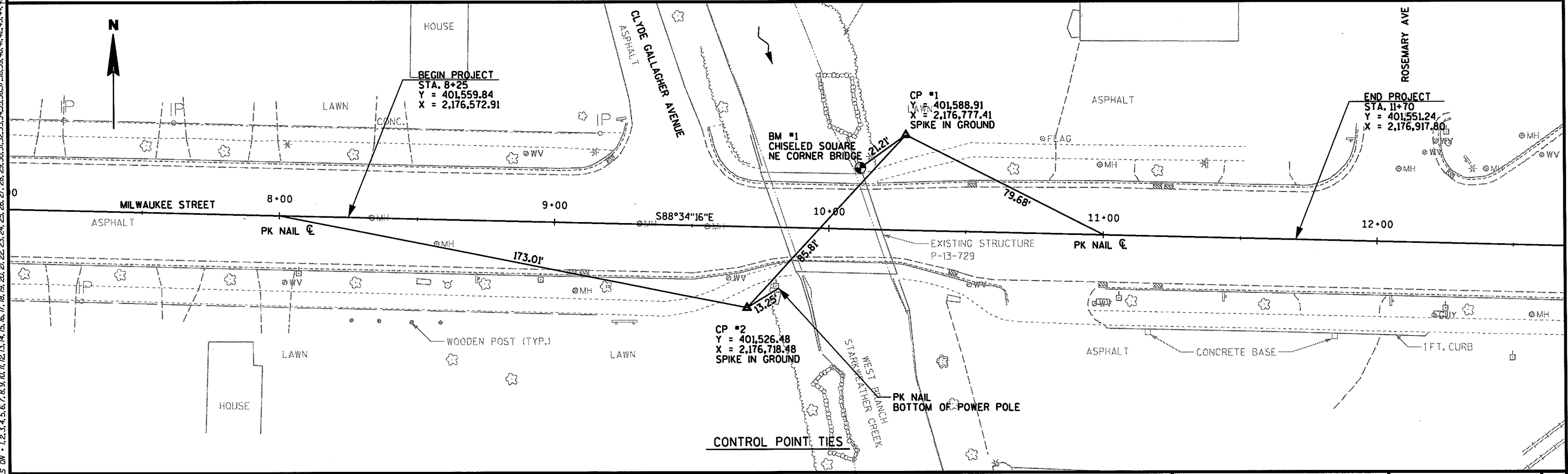
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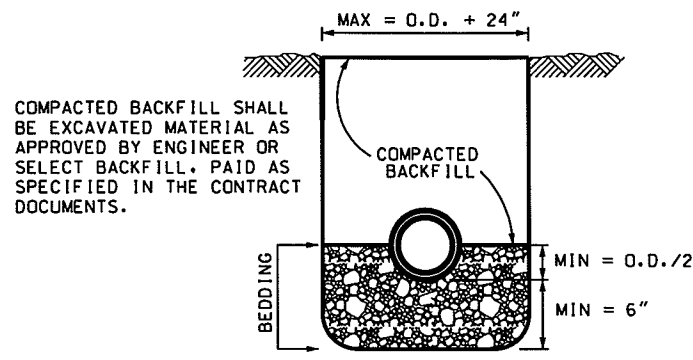
TYPICAL SECTION - MILWAUKEE STREET



SEDIMENT EXCAVATION SECTION ALONG CENTERLINE OF WEST BRANCH STARKWEATHER CREEK



LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

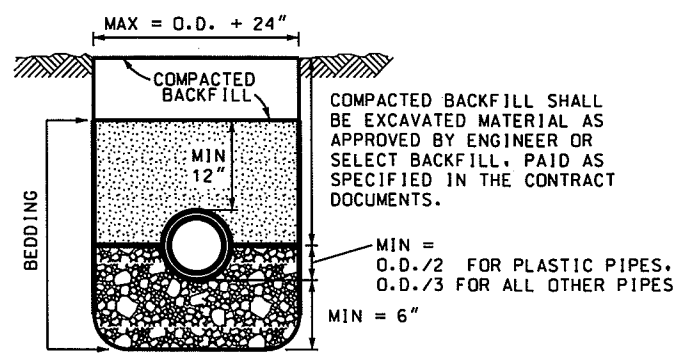


COMPACTED BACKFILL SHALL BE EXCAVATED MATERIAL AS APPROVED BY ENGINEER OR SELECT BACKFILL, PAID AS SPECIFIED IN THE CONTRACT DOCUMENTS.

MIN = O.D./2
MIN = 6"

WASHED GRAVEL OR CRUSHED STONE AS SPECIFIED IN SECTION 503.3.

BEDDING FOR REINFORCED CONCRETE PIPE

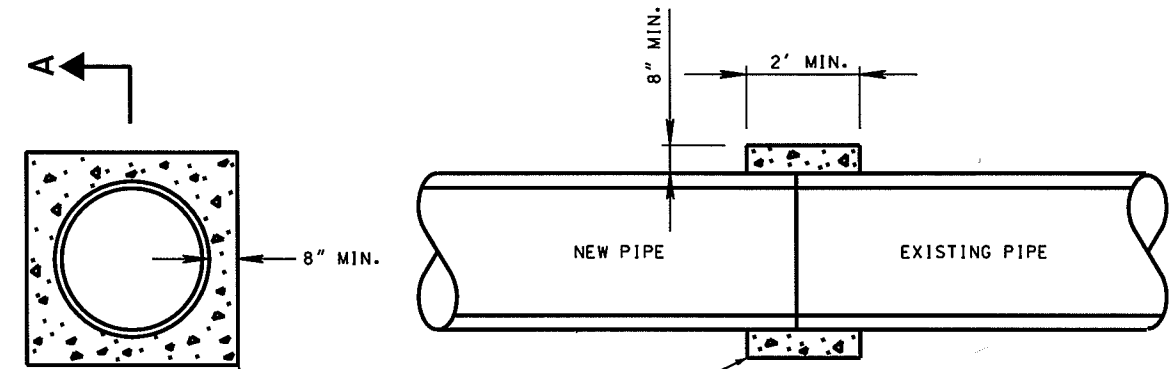


COMPACTED BACKFILL SHALL BE EXCAVATED MATERIAL AS APPROVED BY ENGINEER OR SELECT BACKFILL, PAID AS SPECIFIED IN THE CONTRACT DOCUMENTS.

MIN = 12"
MIN = O.D./2 FOR PLASTIC PIPES, O.D./3 FOR ALL OTHER PIPES
MIN = 6"

PIT RUN SAND
WASHED GRAVEL, CRUSHED STONE, SAND OR LIMESTONE SCREENINGS FOR PIPE SIZES 10" IN DIAMETER OR LESS.
WASHED GRAVEL OR CRUSHED STONE FOR PIPE SIZES OVER 10" IN DIAMETER. AS SPECIFIED IN SECTION 503.3.

BEDDING FOR VITRIFIED CLAY PIPE, DUCTILE IRON PIPE, CAST IRON PIPE, PLASTIC SANITARY SEWER PIPE, AND STORM SEWER PIPES



SECTION A-A

FIELD POURED CONCRETE COLLAR WHERE REQUIRED TO SEAL PIPE

CONCRETE COLLAR

NOTE:

IF REQUESTED BY THE CONSTRUCTION ENGINEER, FIBER REINFORCED CONCRETE SHALL BE PROVIDED

NOTES:

UNLESS OTHERWISE SPECIFIED, ALL SANITARY AND STORM SEWER PIPES, INCLUDING LATERALS AND LEADS, SHALL BE INSTALLED WITH THE TYPE OF BEDDING SHOWN FOR THE TYPE AND SIZE OF PIPE INSTALLED.

THE COSTS OF BEDDING SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE SELECT FILL.

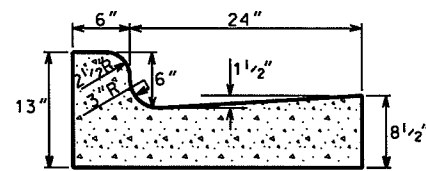
ALL TRENCHES SHALL BE HAND BACKFILLED TO A POINT 12" ABOVE THE TOP OF THE PIPE. ALL BEDDING SHALL BE MECHANICALLY COMPACTED.

PAYMENT SHALL NOT BE MADE FOR BACKFILL WITH EXCAVATED MATERIAL, IF APPROVED. SELECT FILL, IF REQUIRED, SHALL BE PAID PER CONTRACT.

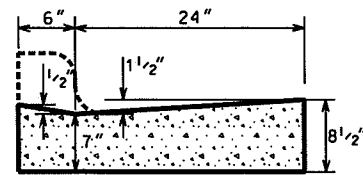
THE MAXIMUM ALLOWABLE TRENCH WIDTH SHALL BE O.D. + 24", AND SHALL APPLY FROM THE BOTTOM OF THE TRENCH TO A POINT 12" ABOVE THE TOP OF THE PIPE. WHERE THIS WIDTH IS EXCEEDED, THE CONTRACTOR SHALL FURNISH AND INSTALL A HIGHER TYPE OF BEDDING AT NO EXTRA COST. THE TYPE OF BEDDING SHALL BE DETERMINED BY THE ENGINEER.

O.D. EQUALS THE OUTSIDE DIAMETER OF THE PIPE. THE MINIMUM DISTANCE OF O.D./2 IS SPECIFIED FOR PLASTIC SEWER PIPE.

STORM SEWER SELECT FILL BEDDINGS



TYPE A & D CONCRETE CURB & GUTTER



CROSSWALK/HANDICAP RAMP SECTION TYPE A & D CONCRETE CURB & GUTTER (PAY AS CURB AND GUTTER TYPE A & D)

CONCRETE CURB & GUTTER

GENERAL NOTES:

TIE BARS ARE REQUIRED FOR CURB & GUTTER TYPE D SPECIAL MADISON.

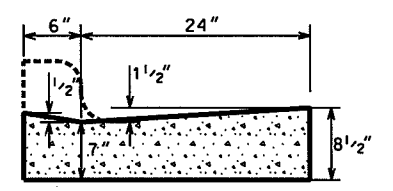
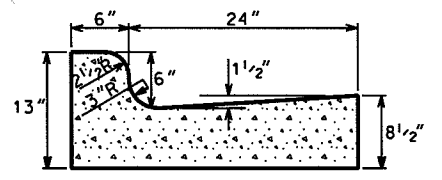
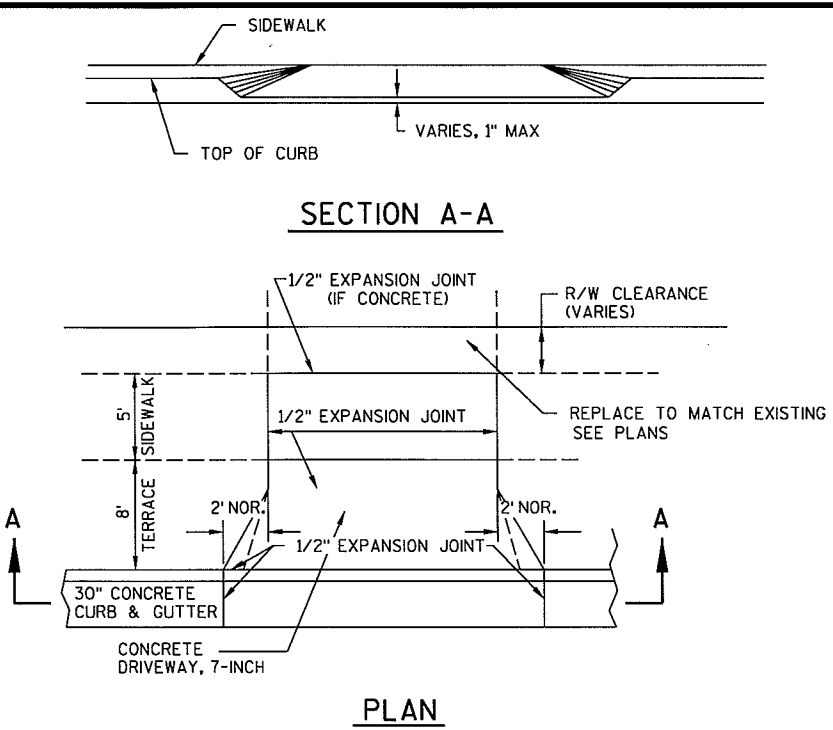
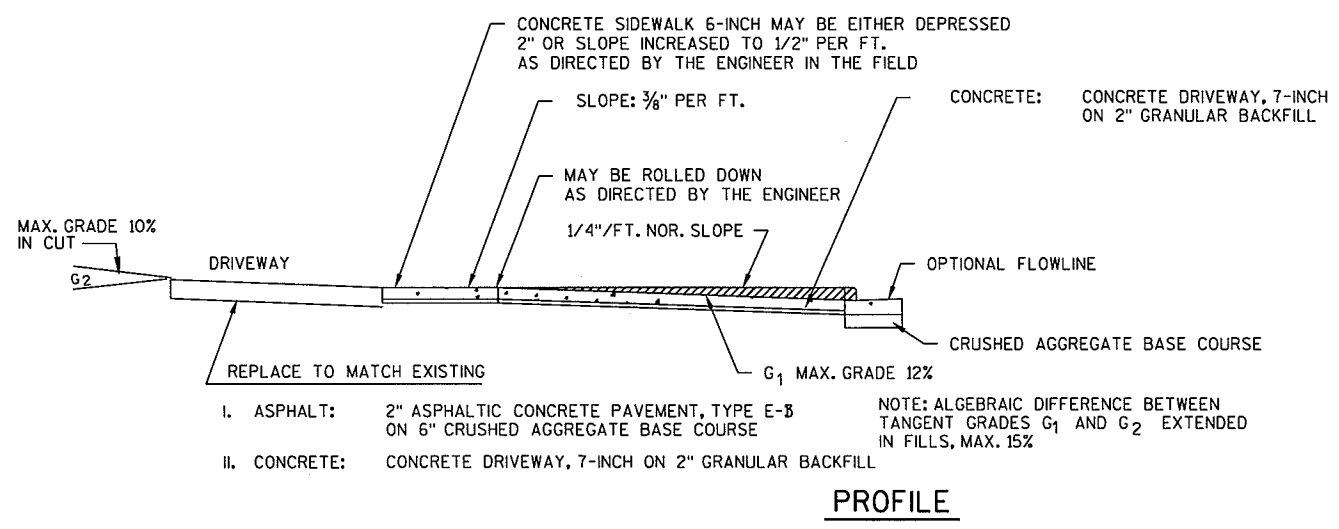
TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.3 OF THE STANDARD SPECIFICATIONS.

LATERAL CONTRACTION JOINTS SHALL BE PLACED AT INTERVALS OF NOT MORE THAN 15' NOR LESS THAN 6' IN LENGTH. THE JOINTS SHALL BE A MINIMUM OF 3" IN DEPTH

EXPANSION JOINTS SHALL BE PLACED TRANSVERSLY AT RADIUS POINTS ON CURVES OF RADIUS 200' OR LESS, AND AT ANGLE POINTS, OR AS DIRECTED BY THE ENGINEER. THE EXPANSION JOINT SHALL BE A ONE PIECE ASPHALTIC MATERIAL HAVING THE SAME DIMENSIONS AS CURB & GUTTER AT THAT STATION AND BE 1/2" THICK.

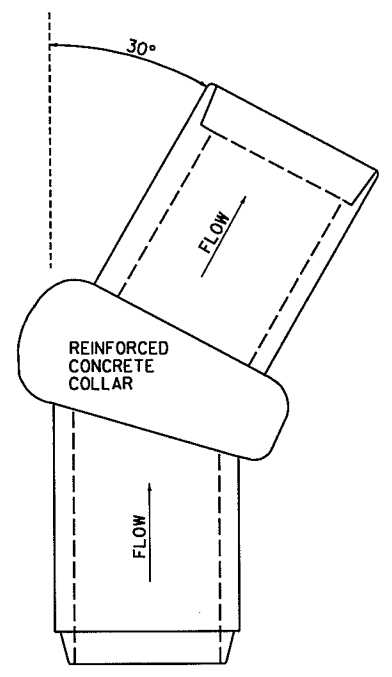
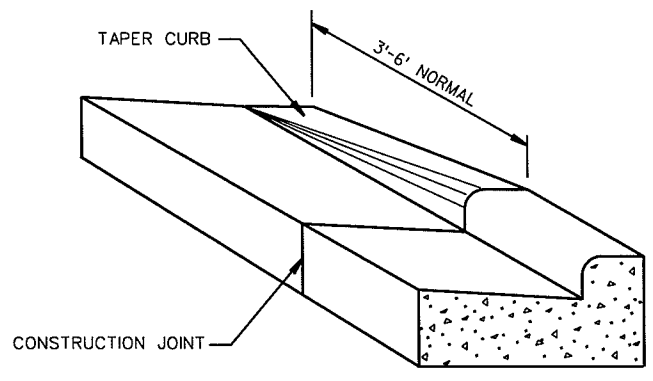
IN ALL CASES, CONCRETE CURB & GUTTER SHALL BE PLACED ON THOROUGHLY COMPACTED BASE AGGREGATE

LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

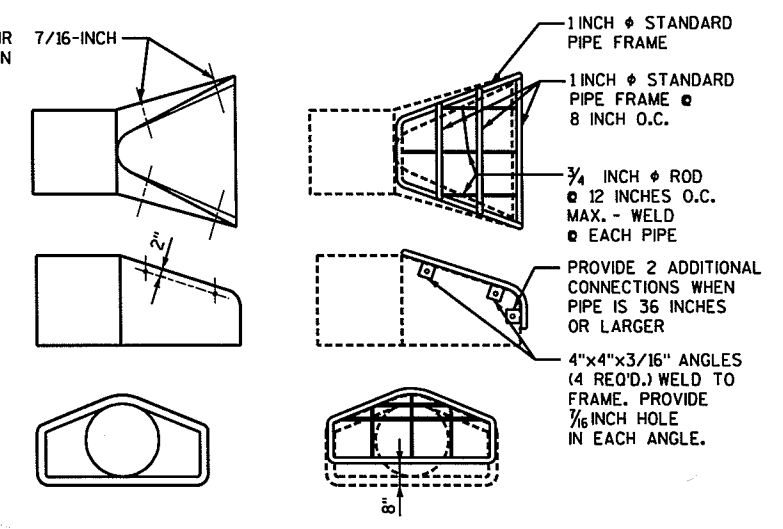


NOTE
THE GRANULAR BACKFILL IS INCLUDED IN THE COST OF CONCRETE DRIVEWAY OR CONCRETE SIDEWALK

URBAN ENTRANCE DETAIL



SHOP DRILL FOUR 7/16-INCH HOLES AS SHOWN

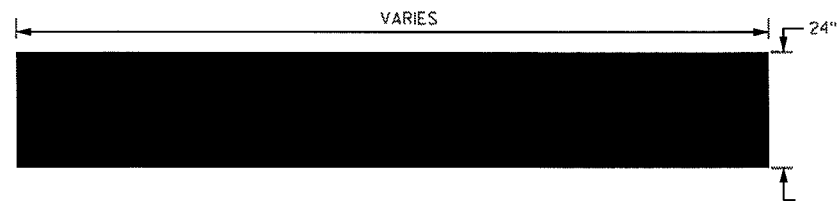


GENERAL NOTES:

- THE CONTRACTOR SHALL BOLT THE PIPE GRATE TO THE ENDWALL WITH FOUR 3/8 INCH x 6 INCH STAINLESS STEEL ZINC COATED MACHINE BOLTS WITH NUTS ON INSIDE WALL.
- PAINTING SPECIFICATIONS**
THE PIPE GRATE SHALL RECEIVE THE FOLLOWING PREPARATION AND PAINTING.
PREPARATION:
BARE SURFACES BY THOROUGH SCRAPING, WIRE BRUSHING AND CLEANING. APPLY THE THREE COAT SYSTEM LISTED.
EACH COAT SHALL BE AN OVERALL COAT.
FIRST COAT: RUST-OLEUM X-60 RED BARE METAL PRIMER OR EQUAL
SECOND COAT: RUST-OLEUM 960 ZINC CHROMATE PRIMER OR EQUAL
THIRD COAT: RUST-OLEUM 1282 HIGH GLOSS AND METALIC FINISH OR EQUAL
ALLOW 24 - 48 HOURS DRYING TIME BETWEEN COATS.

PIPE GRATE DETAIL

LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63



STOP LINE OR CROSSWALK LINE
(WHITE ONLY)



CROSSWALK LINE
(WHITE ONLY)

GENERAL NOTES FOR EPOXY PAVEMENT MARKINGS

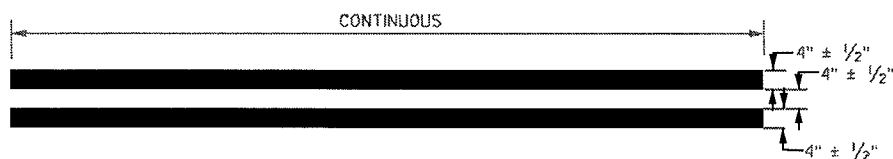
THE CONTRACTOR SHALL APPLY ALL MARKINGS IN ACCORDANCE WITH THE STATE OF WISCONSIN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

AT STREET INTERSECTIONS, MARKINGS START OR END AT THE MARKED CROSSWALK. THE PROPERTY LINE EXTENDED, IF THERE IS NO MARKED CROSSWALK.

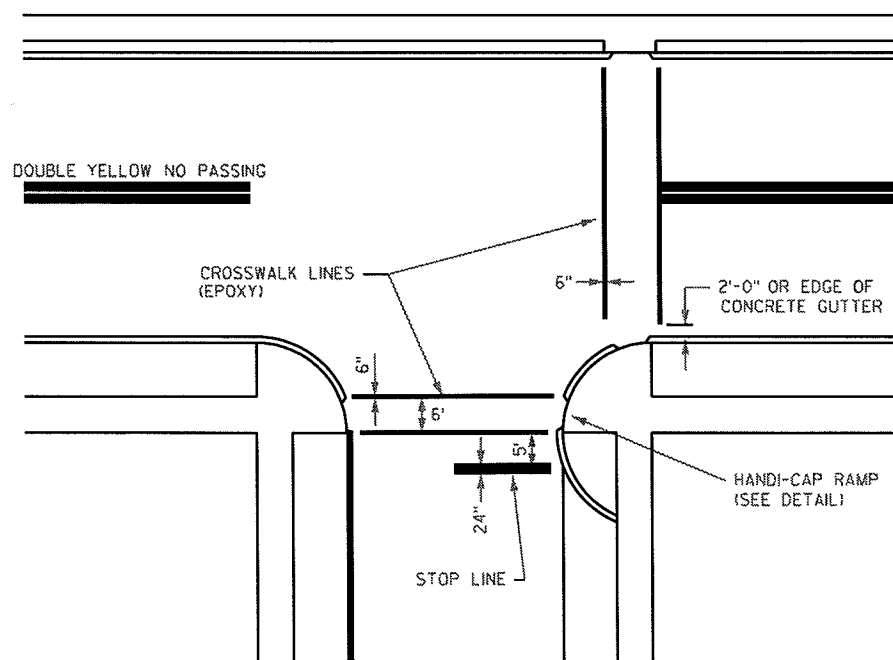
CROSSWALKS AND STOP BARS WILL BE PLACED NO CLOSER THAN 2' TO THE FACE OF CURB.

THE CONTRACTOR SHALL ADHERE TO THE TRAFFIC SPECIFICATION IN THE SPECIAL PROVISIONS AT ALL TIMES.

FOR MORE INFORMATION AND FULL SIZE PATTERNS FOR ARROWS & WORD LEGENDS ARE AVAILABLE AT THE CITY OF MADISON TRAFFIC ENGINEERING FIELD OPERATIONS FACILITY 1120 SAYLE ST. (608) 266-4767

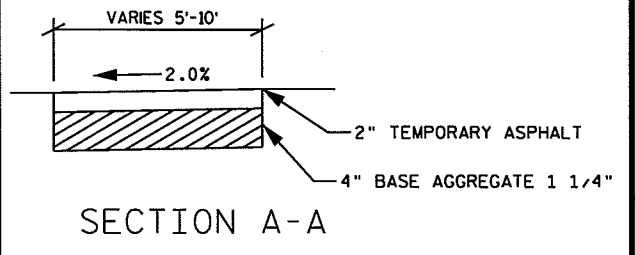
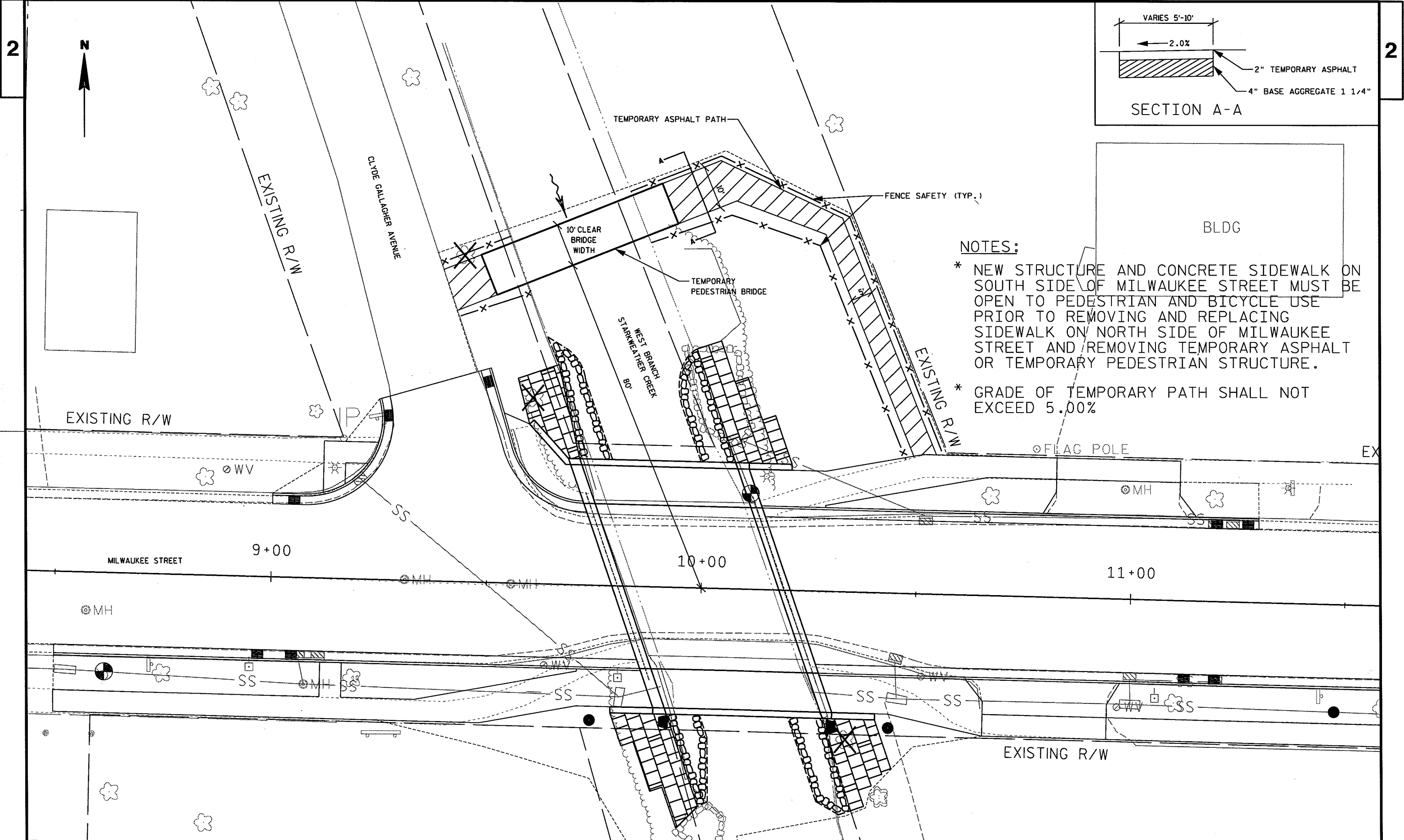


CENTERLINE OR CHANNELIZATION LINE
(WHITE OR YELLOW)



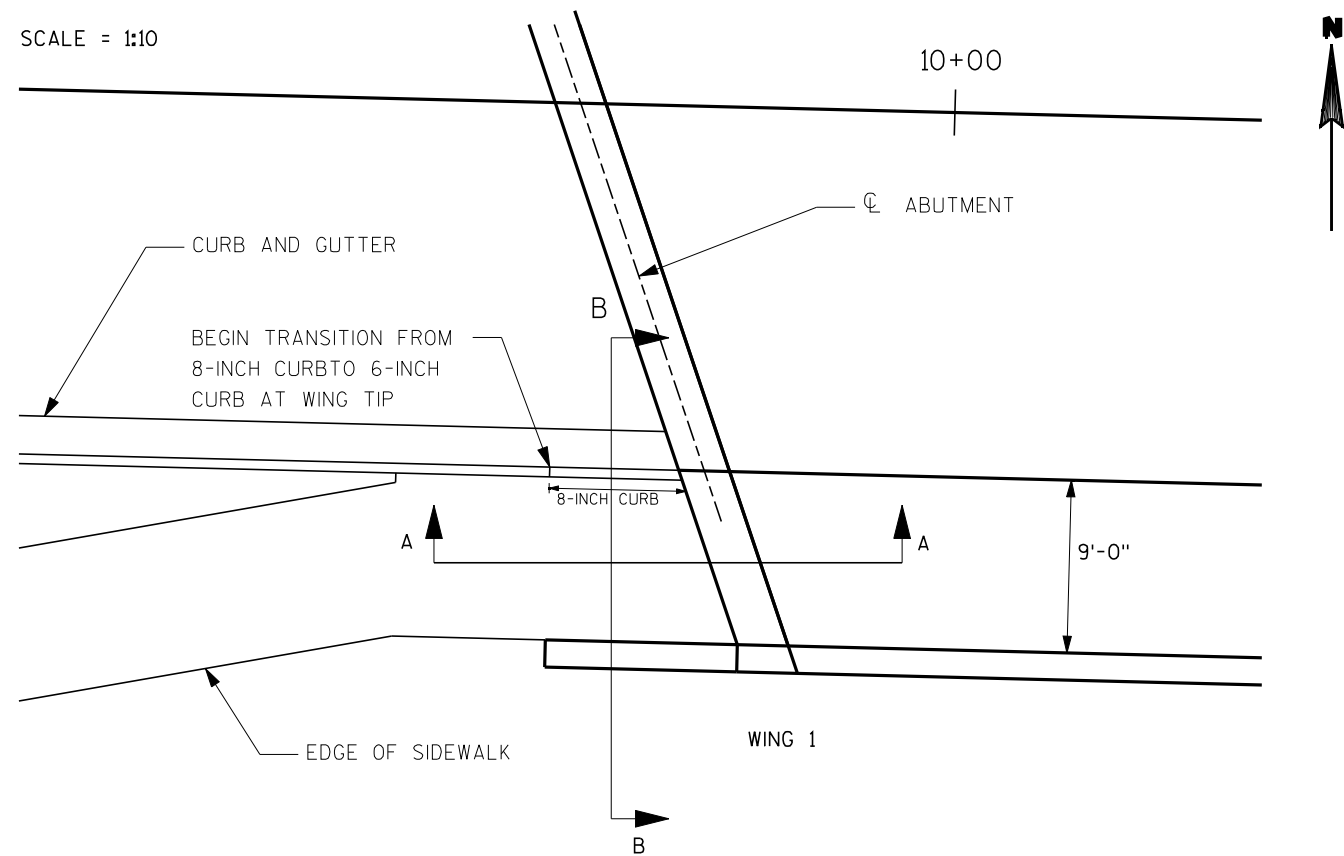
CROSSWALK & STOP LINE DETAILS

LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63



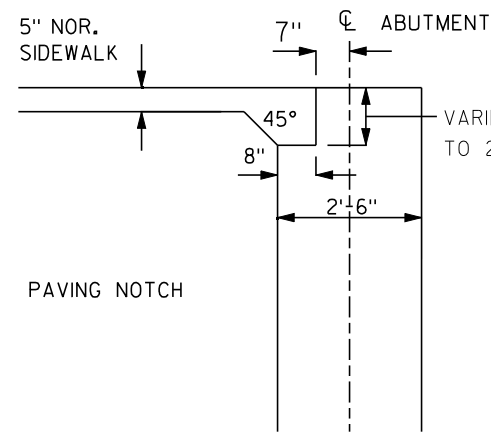
- NOTES:**
- * NEW STRUCTURE AND CONCRETE SIDEWALK ON SOUTH SIDE OF MILWAUKEE STREET MUST BE OPEN TO PEDESTRIAN AND BICYCLE USE PRIOR TO REMOVING AND REPLACING SIDEWALK ON NORTH SIDE OF MILWAUKEE STREET AND REMOVING TEMPORARY ASPHALT OR TEMPORARY PEDESTRIAN STRUCTURE.
 - * GRADE OF TEMPORARY PATH SHALL NOT EXCEED 5.00%

SCALE = 1:10

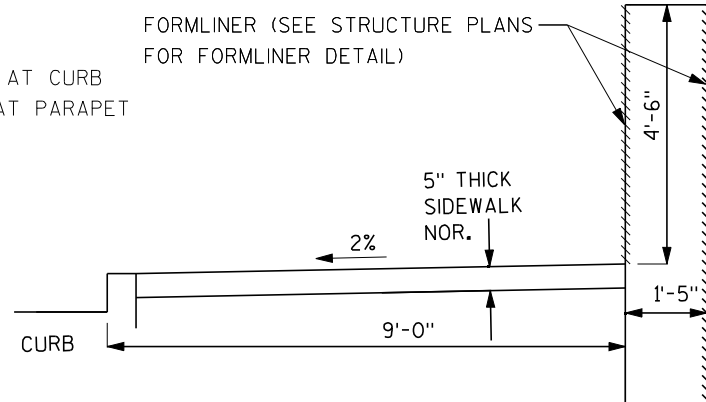


SIDEWALK PLAN VIEW

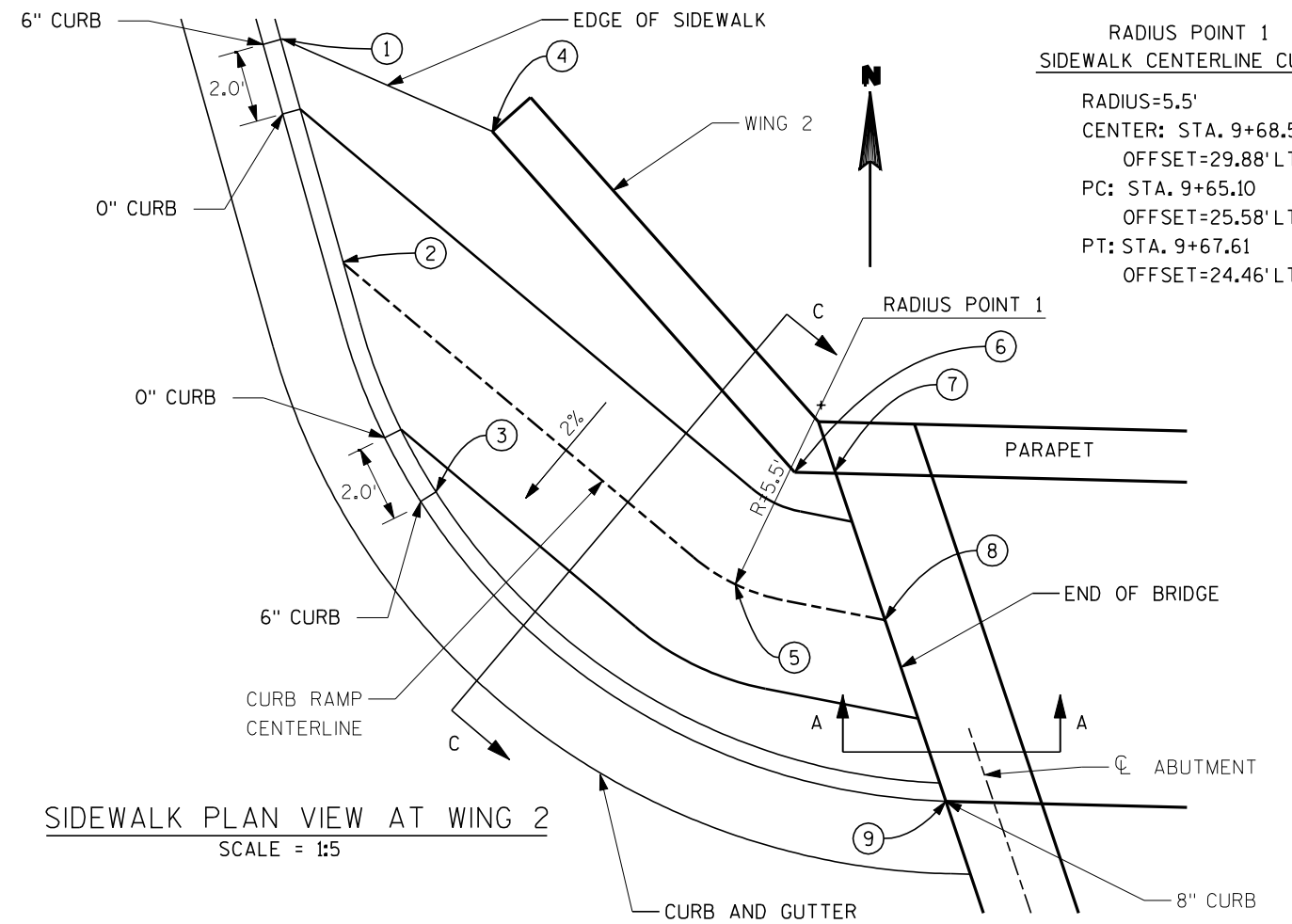
WINGS 1 & 3 SHOWN
WING 4 SIMILAR



SECTION A-A
TYPICAL FOR ALL WINGS

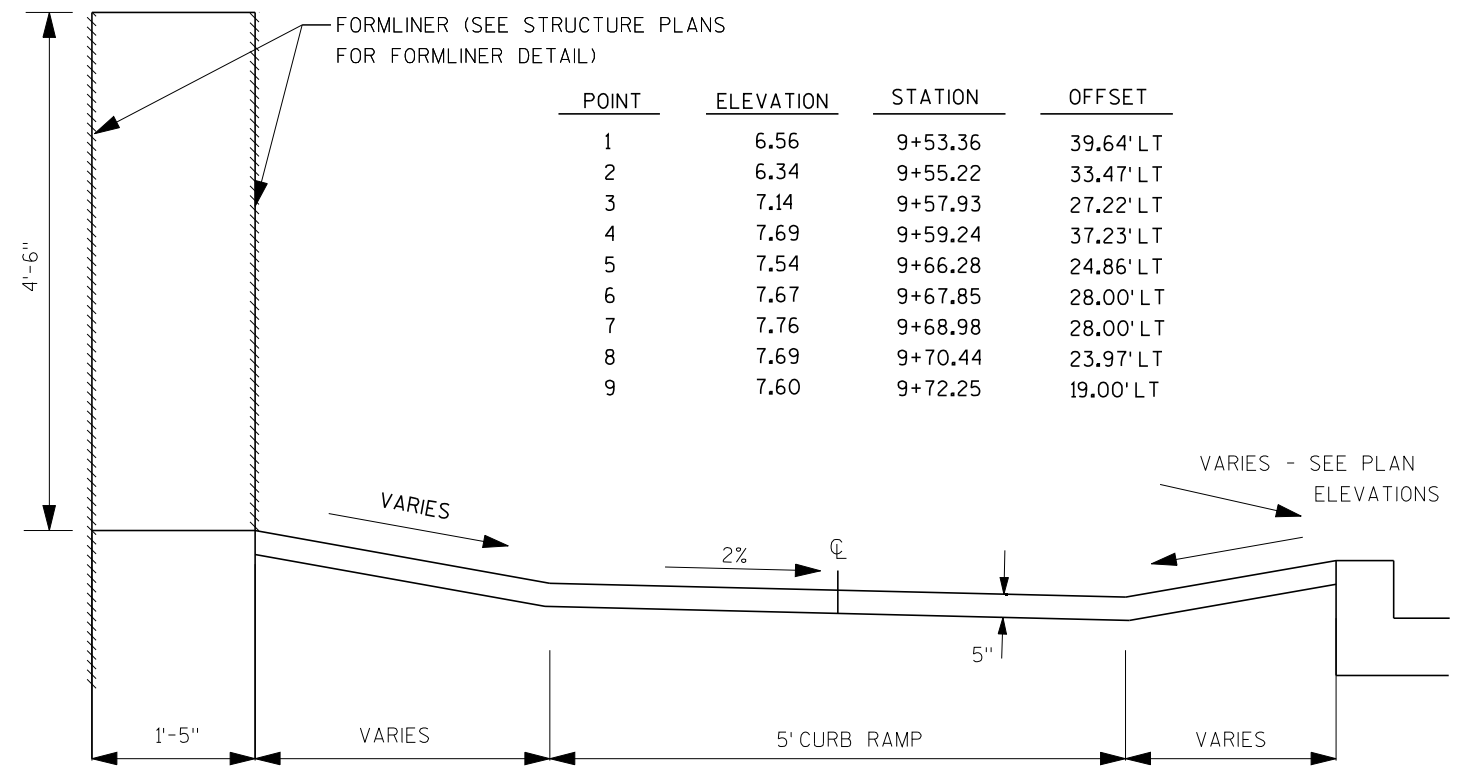


SECTION B-B
TYPICAL FOR WINGS 1, 3, & 4

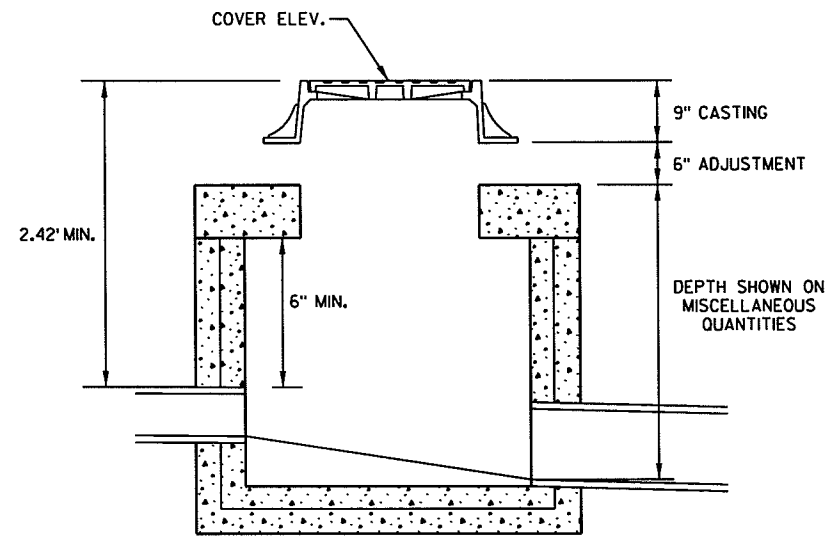


SIDEWALK PLAN VIEW AT WING 2

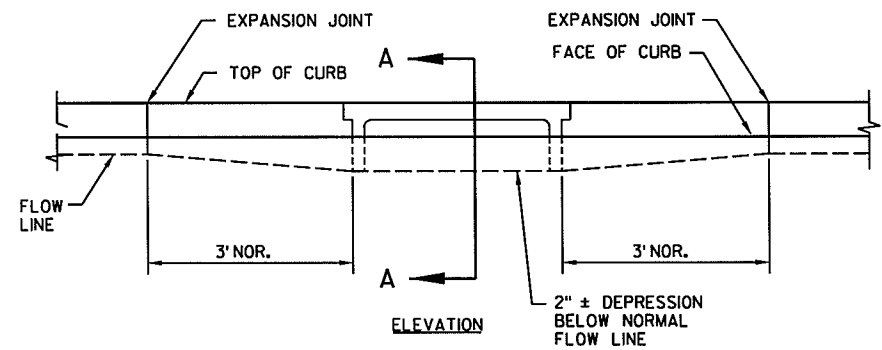
SCALE = 1:5



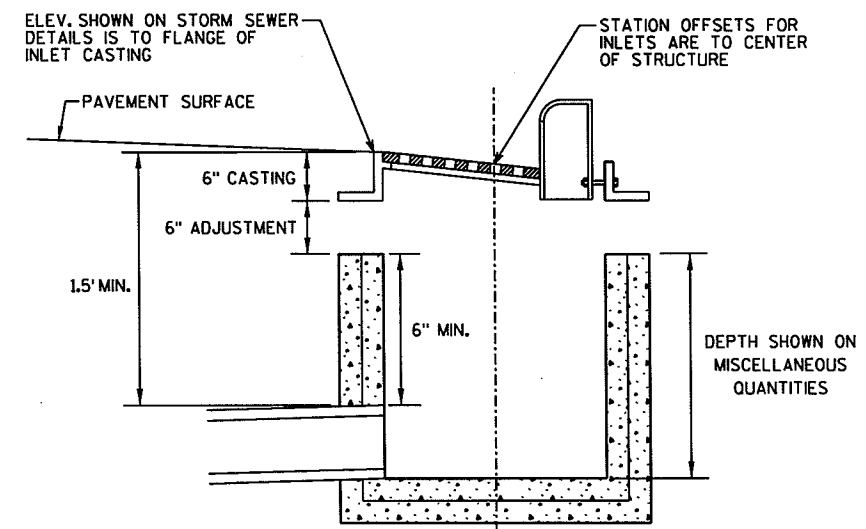
SECTION C-C



DETAIL FOR COMPUTING MANHOLE ELEVATIONS



DETAIL - FLOW LINE DEPRESSION AT INLETS

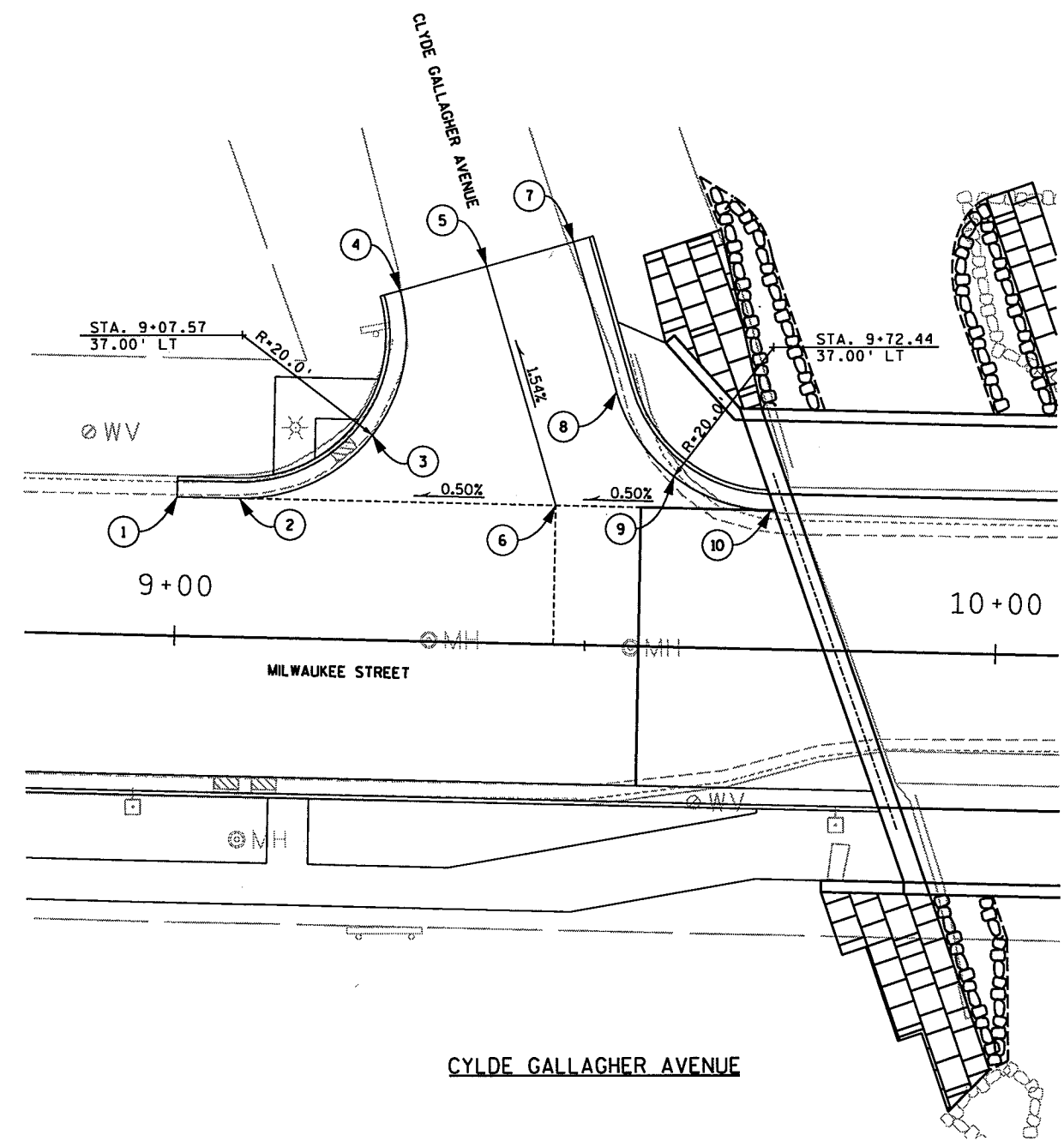


DETAIL FOR COMPUTING INLET ELEVATIONS

SECTION A-A

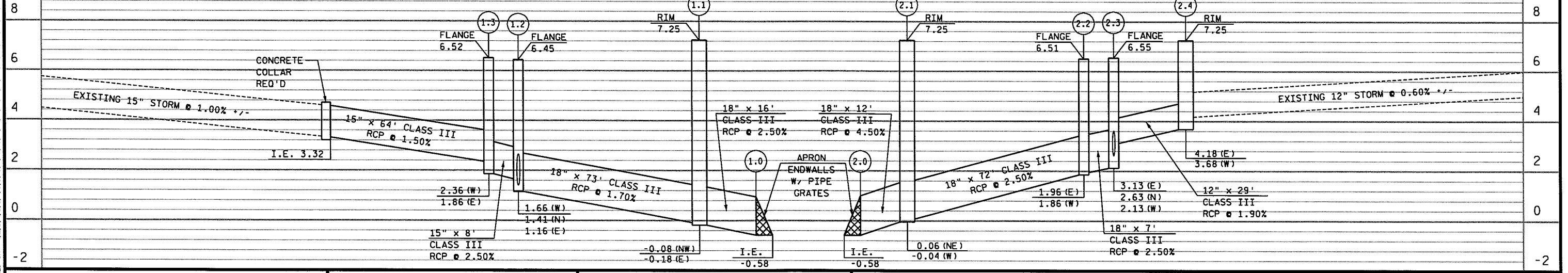
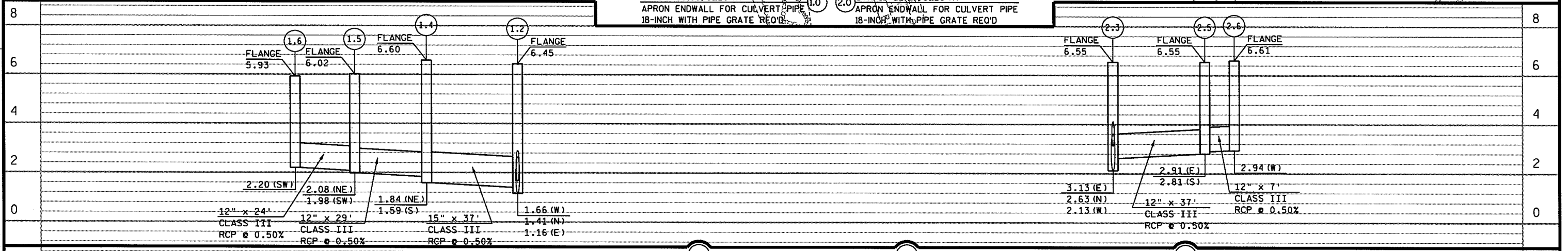
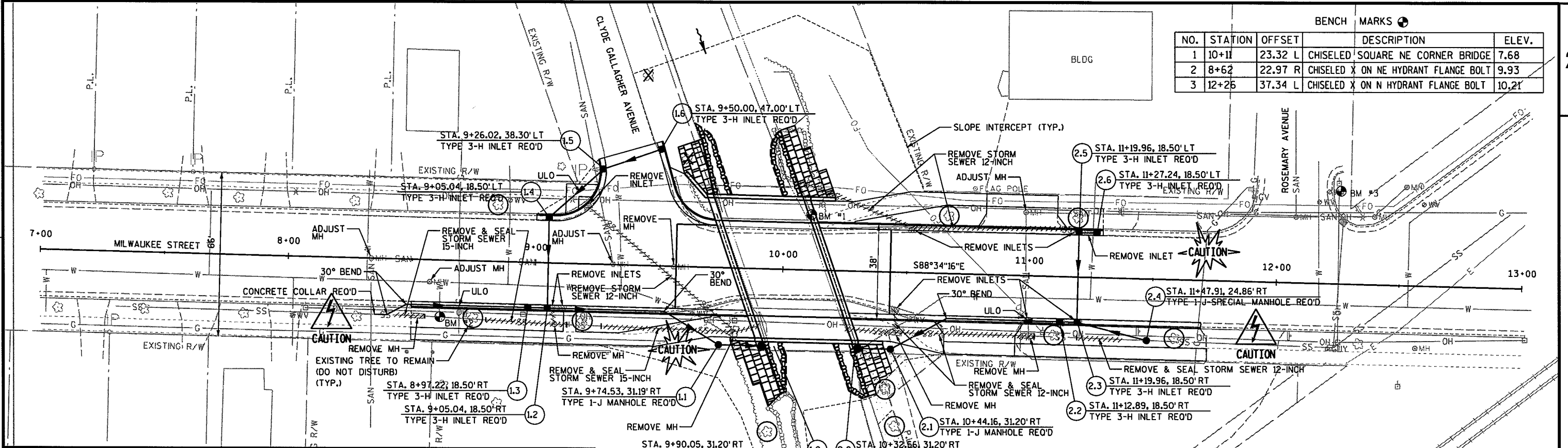
POINT	STATION	OFFSET	ELEVATION	REMARKS
1	9+00.04	17.00' LT	6.66	**
2	9+07.57	17.00' LT	6.65	
3	9+23.66	25.12' LT	6.41	
4	9+26.68	42.88' LT	5.94	**
5	9+37.20	46.12' LT	6.36	**
6	9+46.16	17.00' LT	6.81	
7	9+47.71	49.36' LT	5.89	**
8	9+53.33	31.12' LT	6.37	
9	9+60.56	20.91' LT	6.82	
10	9+72.44	17.00' LT	6.97	

** - MATCH EXISTING

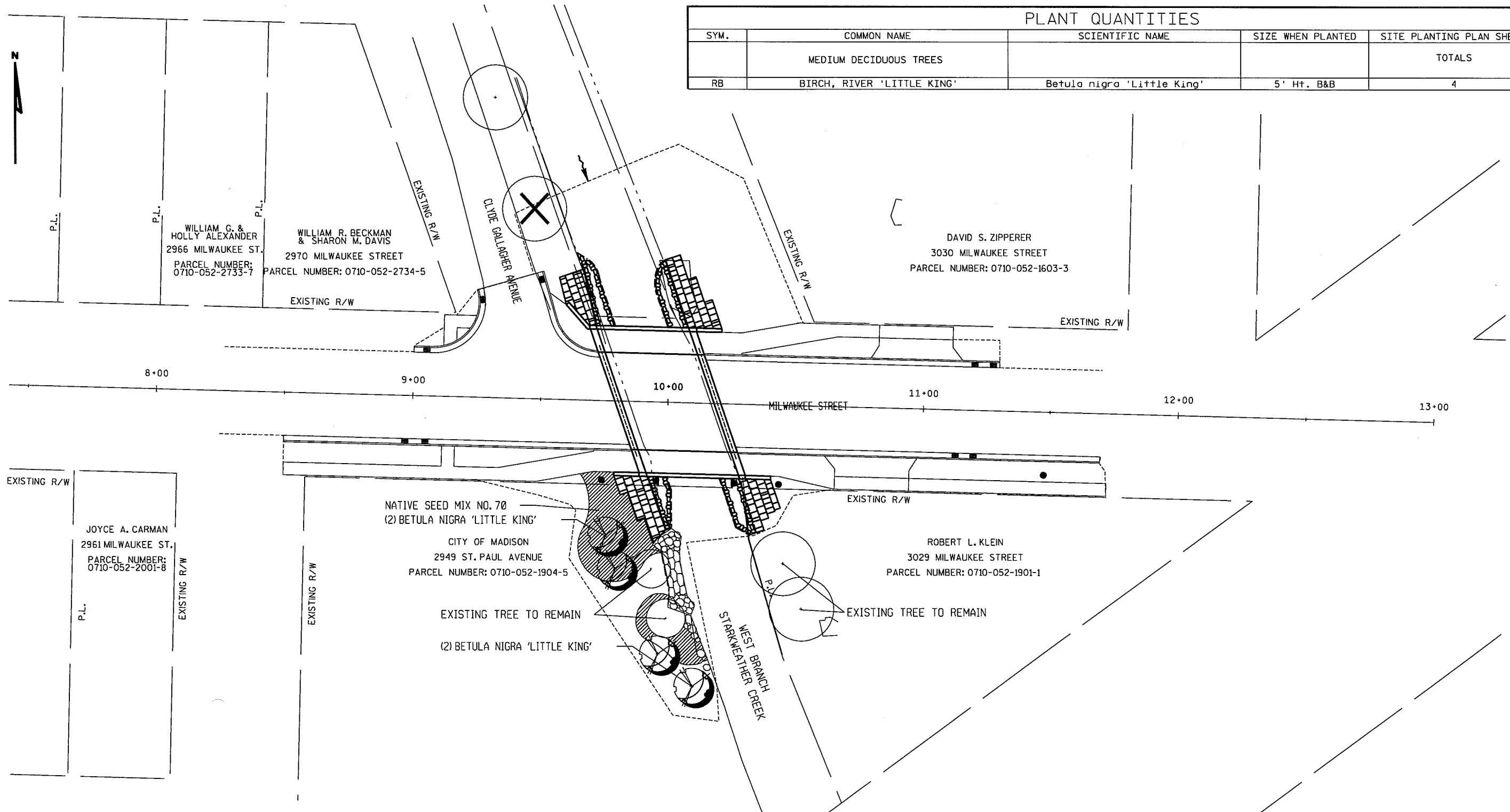


LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

BENCH MARKS				
NO.	STATION	OFFSET	DESCRIPTION	ELEV.
1	10+11	23.32 L	CHISELED SQUARE NE CORNER BRIDGE	7.68
2	8+62	22.97 R	CHISELED X ON NE HYDRANT FLANGE BOLT	9.93
3	12+26	37.34 L	CHISELED X ON N HYDRANT FLANGE BOLT	10.21



PLANT QUANTITIES				
SYM.	COMMON NAME	SCIENTIFIC NAME	SIZE WHEN PLANTED	SITE PLANTING PLAN SHEET
	MEDIUM DECIDUOUS TREES			TOTALS
RB	BIRCH, RIVER 'LITTLE KING'	<i>Betula nigra</i> 'Little King'	5' Ht. B&B	4



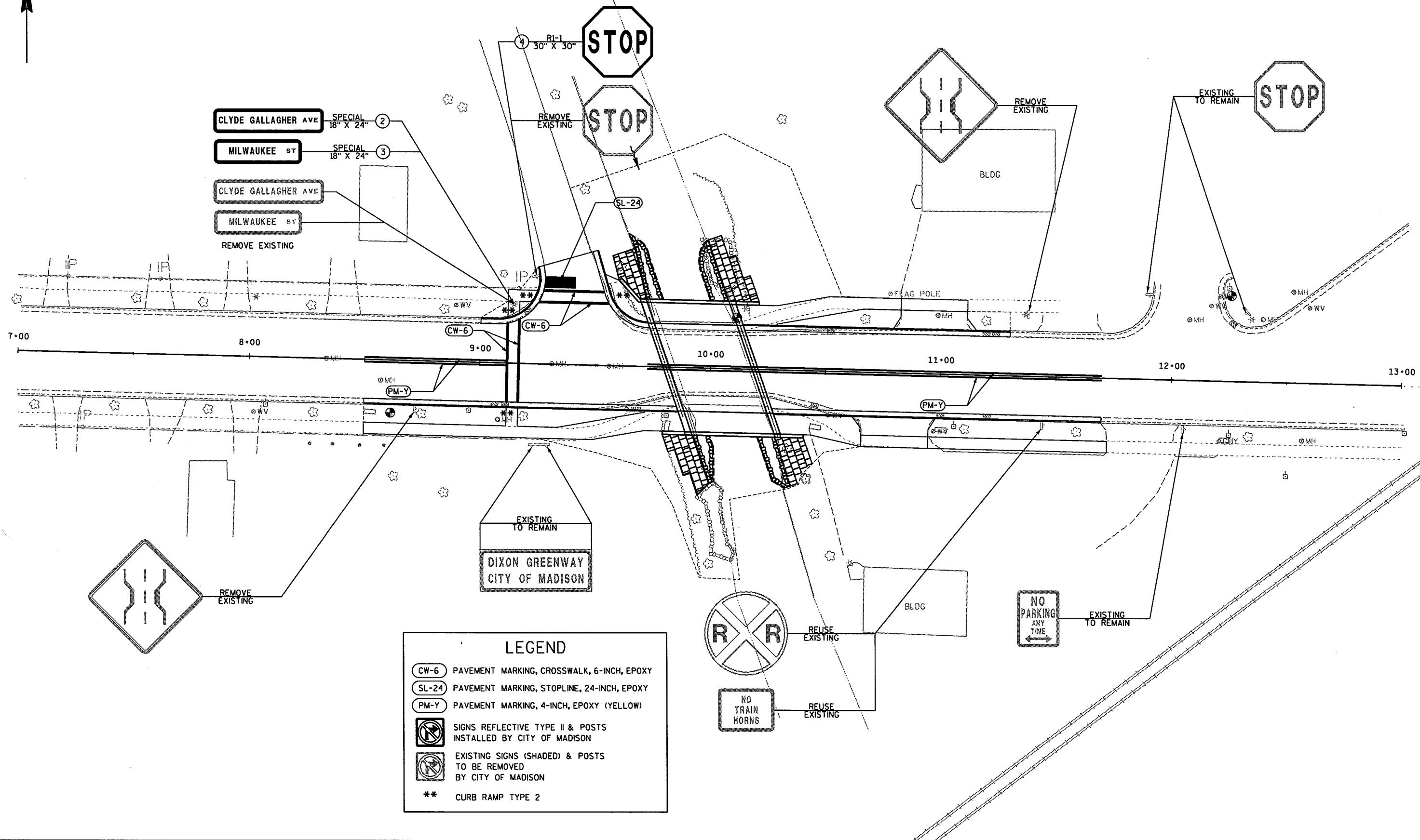
PLANT DATA CHART

SYM.	COMMON NAME	SCIENTIFIC NAME	TYPE	AVERAGE MATURE HEIGHT	SIZE WHEN PLANTED	ROOT ZONE COND.	MINIMUM BALL OR POT SIZE		MINIMUM HOLE SIZE		BRACE OR GUY	FERT. UNITS REQ'D.	RODENT PROTEC. REQ'D.	MULCH RING DIAM.
							DIAM.	DEPTH	DIAM.	DEPTH				
RB	BIRCH, RIVER 'LITTLE KING'	<i>Betula nigra</i> 'Little King'	1	12'	5' HT.	B&B	16"	12"	28"	12"	NO	3	YES	40"

LEVELS ON - 1,2,3,4,5,6,7,8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63



LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 48, 49, 50, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63



LEGEND

- CW-6 PAVEMENT MARKING, CROSSWALK, 6-INCH, EPOXY
- SL-24 PAVEMENT MARKING, STOPLINE, 24-INCH, EPOXY
- PM-Y PAVEMENT MARKING, 4-INCH, EPOXY (YELLOW)
- SIGNS REFLECTIVE TYPE II & POSTS INSTALLED BY CITY OF MADISON
- EXISTING SIGNS (SHADED) & POSTS TO BE REMOVED BY CITY OF MADISON
- **** CURB RAMP TYPE 2

GENERAL NOTES FOR TRAFFIC CONTROL

LOCATIONS OF SIGNS AND OTHER TRAFFIC CONTROL DEVICES ARE APPROXIMATE. THE ACTUAL LOCATIONS AND SPACINGS SHALL BE ADJUSTED AS APPROVED BY THE ENGINEER TO MEET FIELD CONDITIONS.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED.

ALL SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE COVERED OR REMOVED AS NEEDED AND/OR AS DIRECTED BY THE ENGINEER.

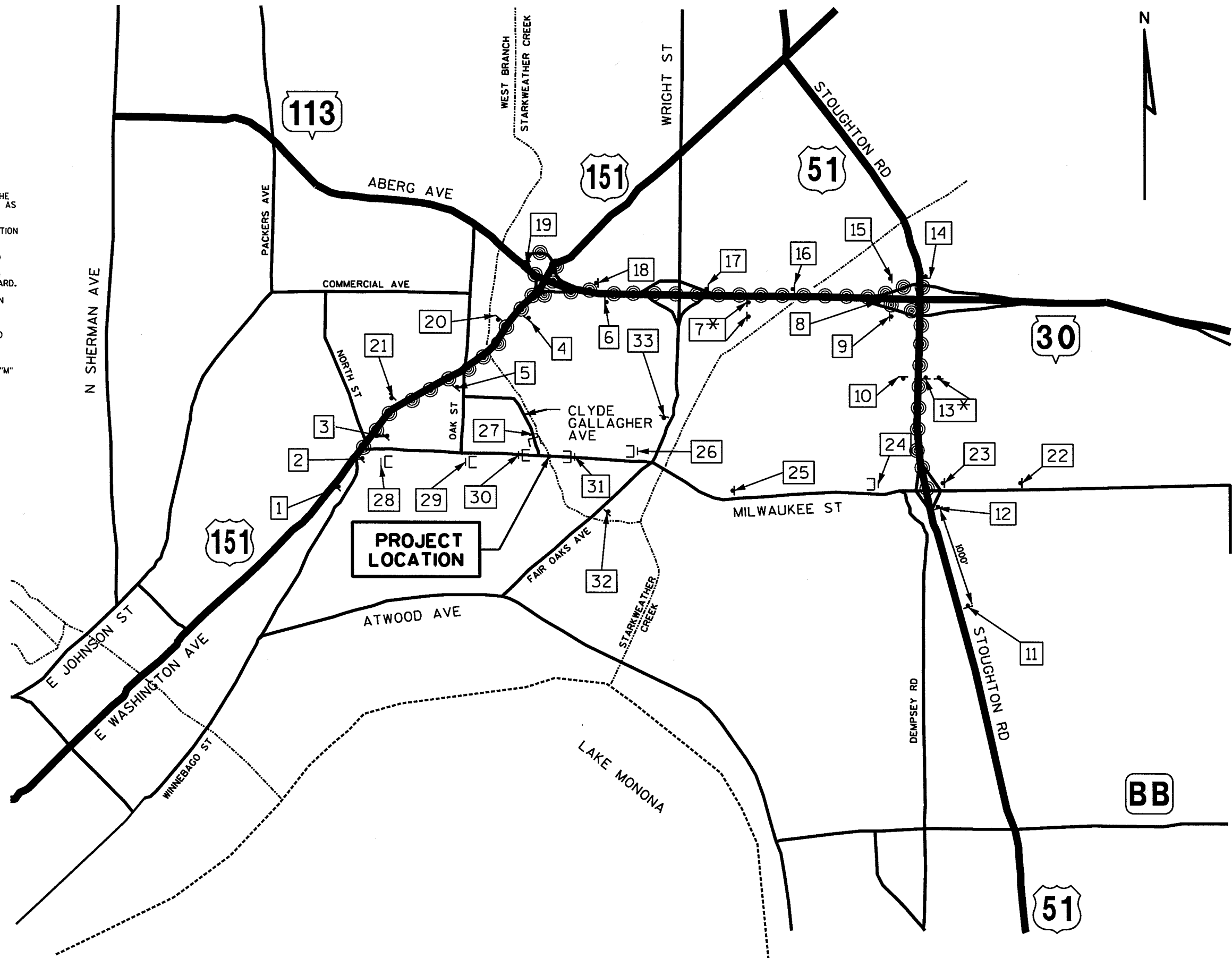
BARRICADE STRIPES ARE TO SLOPE DOWNWARD IN THE DIRECTION OF TRAFFIC FLOW.

ADDITIONAL DRUMS OR TYPE II BARRICADES MAY BE REQUIRED ADJACENT TO DROPOFFS, OPEN TRENCHES, OR PROTRUSIONS (INCLUDING MANHOLE COVERS AND WATER VALVES). COST TO BE INCLUDED WITH THE OPERATION WHICH CREATES THE HAZARD.

ANY "STOP" SIGNS THAT ARE REMOVED FOR A CONSTRUCTION OPERATION SHALL BE IMMEDIATELY REESTABLISHED.

ALL M3 SERIES SIGNS (WEST, ETC.) WHICH ARE PART OF ANY DETOUR ROUTE MARKER SIGNING ASSEMBLY OR ATTACHED TO ANY WARNING SIGN SHALL BE BLACK LETTERING ON WHITE BACKGROUND.

ALL M05 AND M06 ARROW SIGNS SHALL BE THE SAME AS "M" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

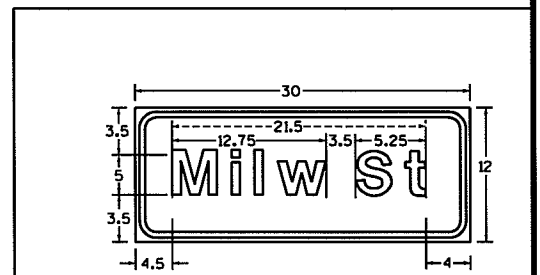
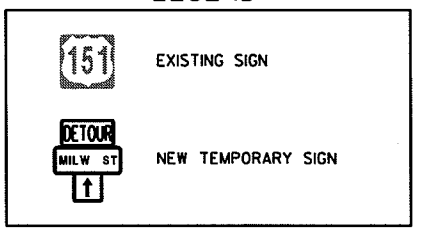


LEGEND

- ⌈ TYPE III BARRICADE WITH SIGN
- ⊙ ⊙ ⊙ DETOUR ROUTE
- ⌋ SIGN MOUNTED ON POST
- * PLACE ONE SIGN IN MEDIAN AND ONE SIGN ON RIGHT SIDE OF ROAD AT THESE LOCATIONS

LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

LEGEND

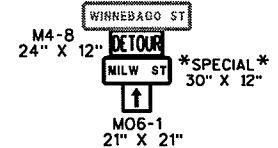


- NOTES
1. ALL SIGNS TYPE II - TYPE H REFLECTIVE - REFERENCE WIS DOT STANDARD SPECIFICATION FOR HIGHWAY AND STRUCTURE CONSTRUCTION LATEST EDITION.
 2. 1/2" BORDER 3/8" MARGIN
 3. COLOR: BACKGROUND - WHITE MESSAGE - BLACK
 4. MESSAGE SERIES - C CITY SIZE 5" C



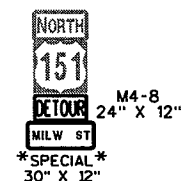
1

(ATTACH TO LIGHT POLE)



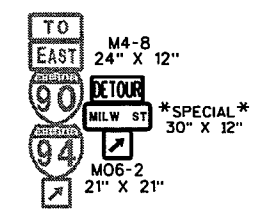
2

(ATTACH TO LIGHT POLE)



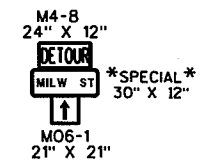
3

(ATTACH TO LIGHT POLE)



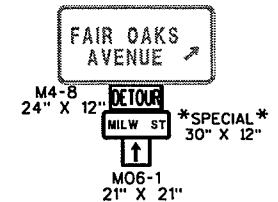
4

(ATTACH TO LIGHT POLE)



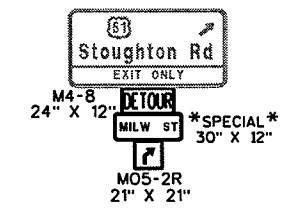
5

(ATTACH TO LIGHT POLE)



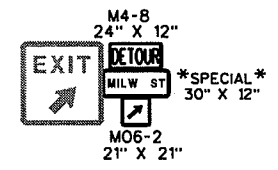
6

(ATTACH TO FAIR OAKS AVENUE EXIT SIGN)



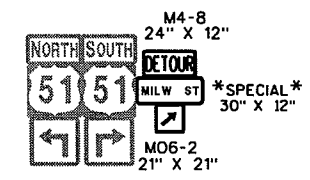
7

(ATTACH TO STOUGHTON ROAD EXIT POLE ON RT SIDE)



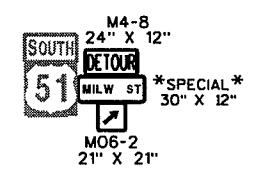
8

(PLACE IN-GORE NEXT TO EXISTING SIGN)



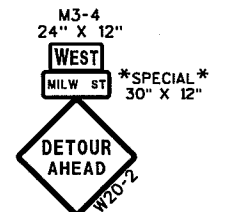
9

(ATTACH TO SIGN POST)

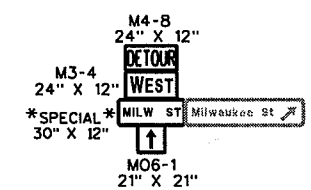


10

(ATTACH TO SIGN POST)

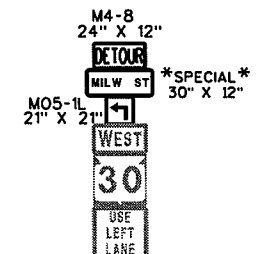


11



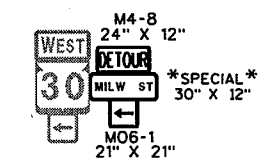
12

(ATTACH TO SIGN POST)



13

(ATTACH TO LIGHT POLE ON CONCRETE BARRIER)



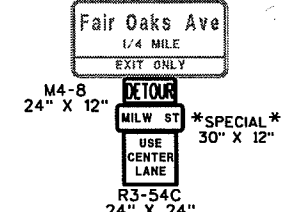
14

(ATTACH TO SIGN POST)



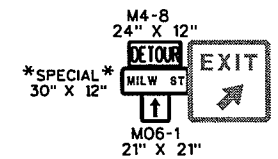
15

(ATTACH TO FAIR OAKS AVENUE EXIT POLE)

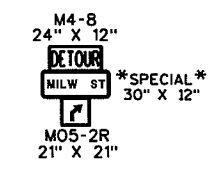


16

(ATTACH TO EXIT SIGN POST)

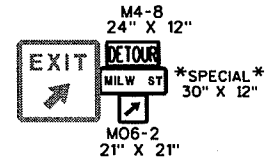


17



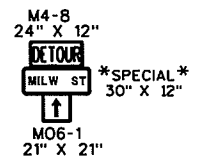
18

(ATTACH TO LIGHT POLE)



19

(ATTACH TO EXIT SIGN POST)



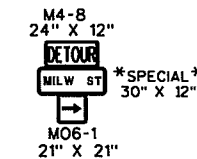
20



21



22



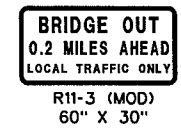
23



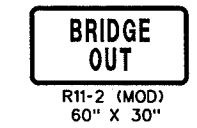
24



25

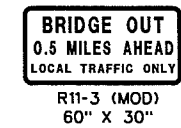


26

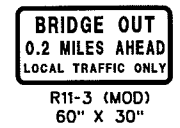


27

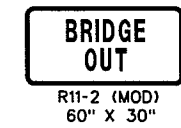
(SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES")



28

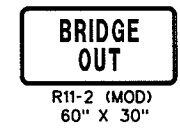


29



30

(SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES")



31

(SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES")



32



33

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

3

3

CLEARING & GRUBBING

CATEGORY	STATION	STATION	(201.0105) CLEARING STA	(201.0205) GRUBBING STA
010	9+00	11+00	2	2

REMOVING PAVEMENT

CATEGORY	STATION	TO STATION	(204.0100) SY
010	8+25	9+74	575
	10+21	11+70	545
	DRIVEWAYS		55
	TOTAL		1,175

REMOVING ASPHALTIC SURFACE

CATEGORY	STATION	TO STATION	LOCATION	(204.0110) SY	REMARKS
010	9+39	10+54	LT	80	TEMPORARY PED. BRIDGE

REMOVING CURB & GUTTER

CATEGORY	STATION	TO STATION	LOCATION	(204.0150) LF
010	8+25	10+00	LT	70
	8+25	10+00	RT	137
	10+00	11+70	LT	116
	10+00	11+70	RT	147
	TOTAL			470

REMOVING CONCRETE SIDEWALK

CATEGORY	STATION	TO STATION	LOCATION	(204.0155) SY
010	8+50	10+00	RT	80
	9+00	10+00	LT	25
	10+00	11+10	LT	60
	10+00	11+70	RT	90
	TOTAL			255

REMOVING CONCRETE BASES

CATEGORY	STATION	LOCATION	(204.0195) EACH
010	9+14	25.5' LT	1
	10+15	26.5' LT	1
	TOTALS		2

REMOVING STORM SEWER STRUCTURES

CATEGORY	STATION	LOCATION	(204.0210) MANHOLES EACH	(204.0220) INLETS EACH
010	8+53	23' RT	1	-
	9+07	18' RT	-	1
	9+08	25' RT	1	-
	9+11	18' RT	-	1
	9+20	23' LT	-	1
	9+56	CL	1	-
	9+81	26' RT	1	-
	10+45	15' RT	-	1
	10+46	24' RT	1	-
	10+52	17' LT	-	1
	11+00	24' RT	1	-
	11+00	18' LT	-	1
	11+20	18' LT	-	1
	11+20	18' RT	-	1
	11+24	18' LT	-	1
	TOTAL		6	9

EXCAVATION COMMON

CATEGORY	STATION	TO STATION	(205.0100) EXCAVATION COMMON CY	ADJUSTED FILL* CY	WASTE* CY	(208.0100) BORROW CY
010	8+25	9+79	480	2	478	-
	10+21	11+70	420	2	418	-
	TEMPORARY PED BRIDGE		15	-	15	50
	TOTALS		915	4	911	50

* NOT A BID ITEM, FOR INFORMATION ONLY. FILL EXPANSION 30%

REMOVING STORM SEWER PIPE

CATEGORY	STATION	TO STATION	LOCATION	12-INCH (204.0245.01) LF	15-INCH (204.0245.02) LF
010	8+43	8+55	RT	-	12
	8+80	9+12	RT	-	33
	9+07	-	8' RT - 24' R	6	-
	9+20	9+82	LT & RT	79	-
	9+27	9+81	RT	-	55
	9+81	9+91	RT	-	10
	10+08	11+20	LT	116	-
	10+27	10+46	RT	20	-
	10+46	-	RT	10	-
	10+46	11+02	RT	57	-
	11+21	11+38	RT	18	-
	TOTAL			306	110

SEALING PIPES

CATEGORY	STATION	LOCATION	(204.0280) EACH
010	8+56	24' RT	1
	8+80	24' RT	1
	9+13	25' RT	1
	9+27	25' RT	1
	11+03	24' RT	1
	11+20	24' RT	1
	TOTAL		6

BASE AGGREGATE DENSE

CATEGORY	STATION	TO STATION	(305.0120) 1 1/4-INCH TON
010	8+25	9+57	610
	10+43	11+70	590
	CLYDE GALLAGHER AVE DRIVEWAYS		95
	TEMPORARY PED BRIDGE		20
	TOTALS		1,335

BREAKER RUN

CATEGORY	LOCATION	(311.0110) TON
010	UNDISTRIBUTED	200

CONCRETE PAVEMENT APPROACH SLAB

CATEGORY	STATION	TO STATION	(416.0050) SY
010	9+57	9+79	90
	10+21	10+43	90
	TOTAL		180

CONCRETE DRIVEWAY 7-INCH

CATEGORY	STATION	LOCATION	(416.0170) SY
010	10+80	RT	44
	11+00	LT	44
	TOTAL		88

CULVERT PIPE CONCRETE COLLAR

CATEGORY	STATION	LOCATION	(520.8000.S) EACH
010	8+35	23' RT	1

CONCRETE SIDEWALK 5-INCH

CATEGORY	STATION	TO STATION	LOCATION	(602.0410) SF
010	8+50	10+00	LT	250
	8+50	10+00	RT	880
	10+00	11+70	LT	500
	10+00	11+70	RT	740
	TOTAL			2,370

ASPHALTIC SURFACES

CATEGORY	STATION	TO STATION	(455.0605) TACK COAT GAL	(460.1103) HMA PAVEMENT TYPE E-3 TON	(455.0120) ASPHALTIC MATERIAL PG64-28 TON	(465.0125) ASPHALTIC SURFACE TEMPORARY TON
010	8+25	9+57	14	145	8.7	-
	10+43	11+70	13	140	8.5	-
	CLYDE GALLAGHER AVENUE TEMPORARY PEDESTRIAN BRIDGE		3	30	1.8	-
	TOTALS		30	315	19	10

CURB RAMP DETECTABLE WARNING FIELD YELLOW

CATEGORY	STATION	LOCATION	TYPE	(602.0505) SF
010	9+14	22' LT	1	8
	9+14	21' RT	1	8
	9+22	29' LT	1	8
	9+64	26' LT	1	8
	TOTAL			32

EXISTING MANHOLES

CATEGORY	STATION	LOCATION	(611.8110) ADJUSTING MANHOLE COVERS EACH	(611.8120.S) COVER PLATES TEMPORARY
10	8+33	CL	1	1
	8+57	9' RT	1	1
	9+31	CL	1	1
	10+98	26' LT	1	1
	TOTAL		4	4

FENCE SAFETY

CATEGORY	STATION	TO STATION	LOCATION	(616.0700.S) LF
010	8+25	11+70	LT	345
	8+25	11+70	RT	345
	TEMPORARY PED BRIDGE			260
TOTAL				950

DUST CONTROL SURFACE TREATMENT

CATEGORY	STATION	TO STATION	(623.0200) SY
010	8+25	11+70	4,950

EROSION BALES

CATEGORY	STATION	(628.1105) DELIVERED EA	(628.1110) INSTALLED EA
010	UNDISTRIBUTED	25	25

SILT FENCE

CATEGORY	STATION	TO STATION	LOCATION	(628.1505) DELIVERED LF	(628.1510) INSTALLED LF	(628.1520) MAINTENANCE LF
010	8+25	10+00	LT	50	50	100
	8+25	10+00	RT	120	120	240
	10+00	11+70	LT	120	120	240
	10+00	11+70	RT	25	25	50
UNDISTRIBUTED				35	35	70
TOTAL				350	350	700

SILT SCREEN

CATEGORY	STATION	LOCATION	(628.1550) LF
010	10+00	70' RT	30

INLET PROTECTION

CATEGORY	STRUCTURE I.D.	STATION	LOCATION	(628.7005) TYPE A EACH	(628.7015) TYPE C EACH
010	1.3	8+97.22	RT	1	1
	1.2	9+05.04	RT	1	1
	1.4	9+05.04	LT	1	1
	1.5	9+26.02	LT	1	1
	1.6	9+50.00	LT	1	1
	2.2	11+12.89	RT	1	1
	2.3	11+19.96	RT	1	1
	2.5	11+19.96	LT	1	1
	2.6	11+27.24	LT	1	1
TOTAL				9	9

TREES

CATEGORY	STATION	LOCATION	(632.0101.01) BETULA NIGRA B&B 5' EACH	
010	9+77.03	52.90' RT	1	
	9+80.45	66.28' RT	1	
	9+97.48	98.96 RT	1	
	10+12.62	111.21 RT	1	
TOTAL				4

FINISHING ITEMS

CATEGORY	STATION	TO STATION	LOCATION	EROSION MAT URBAN CLASS I TYPE A				SEEDING			
				(625.0100) TOPSOIL SY	(627.0200) MULCHING SY	(628.2015) DELIVERED SY	(628.3015) INSTALLED SY	(629.0210) FERTILIZER TYPE B CWT	(630.0140) MIXTURE NO. 40 LB	(630.0170) MIXTURE NO. 70 LB	(630.0400) NURSE CROP LB
010	8+25	10+00	LT	90	70	20	20	0.07	2.0	-	-
	8+25	10+00	RT	255	165	90	90	0.17	2.5	1.0	2.0
	10+00	11+70	LT	385	335	50	50	0.25	7.5	-	-
	10+00	11+70	RT	85	15	70	70	0.06	2.0	-	-
TOTALS				815	585	230	230	0.55	14.0	1.0	2.0

SOD EROSION CONTROL

CATEGORY	LOCATION	(631.1100) SY
010	UNDISTRIBUTED	50

TRAFFIC CONTROL

CATEGORY	(643.0420) BARRICADES TYPE III DAYS	(643.0705) WARNING LIGHTS TYPE A DAYS	(643.0900) SIGNS DAYS	(643.2000) DETOUR (5886-01-07) EACH	(643.3000) DETOUR SIGNS DAYS
010	PROJECT ID 5992-07-50	3,230	4,420	2,040	1
					11,050

PAVEMENT MARKING

CATEGORY	STATION	TO STATION	LOCATION	(646.0106) EPOXY 4-INCH (DOUBLE YELLOW CENTERLINE) LF	(647.0576) STOP LINE EPOXY 24-INCH LF	(647.0766) CROSSWALK EPOXY 6-INCH (SOLID WHITE) LF
010	8+25	11+70	CL	520	-	-
	9+26	9+54	LT	-	-	60
	9+15	-	LT-RT	-	-	70
	9+28	9+41	LT	-	15	-
TOTALS				520	15	130

CONSTRUCTION STAKING

CATEGORY	STRUCTURE I.D.	LOCATION	(650.4000) STORM SEWER SYSTEM EACH
010	1.0	RT	1
	1.1	RT	1
	1.2	RT	1
	1.3	RT	1
	1.4	LT	1
	1.5	LT	1
	1.6	LT	1
	2.0	RT	1
	2.1	RT	1
	2.2	RT	1
	2.3	RT	1
	2.4	RT	1
	2.5	LT	1
	2.6	LT	1
TOTAL			14

CONSTRUCTION STAKING

CATEGORY	STATION	TO STATION	LOCATION	(650.5500) CURB GUTTER AND CURB & GUTTER LF
010	9+00	9+08	LT MAINLINE	8
	9+08	9+27	LT RADIUS	38
	9+48	9+53	LT MAINLINE	19
	9+53	9+72	LT RADIUS	26
	9+14	11+30	LT MAINLINE	116
	8+50	9+85	RT MAINLINE	136
	10+27	11+70	RT MAINLINE	143
TOTAL				486

CONSTRUCTION STAKING

CATEGORY	LOCATION	(650.8500) ELECTRICAL INSTALLATION LS
010	PROJECT 5992-07-50	1

CONSTRUCTION STAKING

CATEGORY	STATION	TO STATION	(650.4500) SUBGRADE LF	(650.5000) BASE LF	(650.7000) CONCRETE PAVEMENT LF
010	8+25	9+79	154	154	-
	9+56.59	9+79.17	-	-	23
	10+21	11+70	149	149	-
	10+20.83	10+43.41	-	-	23
TOTAL			303	303	46

SAWING EXISTING PAVEMENT

CATEGORY	STATION	LOCATION	(690.0100) LF
010	9+37	46' LT	22

SAWING CONCRETE PAVEMENT FULL DEPTH

CATEGORY	STATION	LOCATION	(690.0200) LF
010	8+25	CL	35
	8+25 - 9+00	LT	75
	8+25 - 8+50	RT	25
	11+29 - 11+70	LT	45
	11+70	CL	35
	TOTAL		215

SEDIMENT EXCAVATION

CATEGORY	STATION	FROM	TO	(SPV.0035.01) CY
010	10+00	50' LT	50' RT	90

UTILITY LINE OPENING (ULO)

CATEGORY	STATION	LOCATION	(SPV.0060.03) EACH
010	8+69.23	18.48' RT	1
	9+17.07	28.73' LT	1
	10+99.39	17.61' RT	1
	TOTAL		3

CONCRETE CURB & GUTTER

CATEGORY	STATION	TO	STATION	LOCATION	(SPV.0090.02) 30-INCH SPECIAL MADISON TYPE A LF
010	9+00	9+08	9+08	LT MAINLINE	8
	9+08	9+27	9+27	LT RADIUS	38
	9+48	9+53	9+53	LT MAINLINE	19
	9+53	9+72	9+72	LT RADIUS	26
	9+14	11+30	11+30	LT MAINLINE	116
	8+50	9+85	9+85	RT MAINLINE	136
	10+27	11+70	11+70	RT MAINLINE	143
	TOTAL				486

STORM SEWER REINFORCED CONCRETE PIPE, CLASS III

CATEGORY	STRUCTURE I.D. FROM	TO	(608.0312)(608.0315)(608.0318)			(SPV.0090.01)	JOINT TIES REQUIRED*
			12-INCH LF	15-INCH LF	18-INCH LF	SELECT FILL FOR STORM SEWER PIPE LF	
010	EXISTING	1.3	-	64	-	64	-
		1.3	-	8	-	8	-
		1.6	24	-	-	24	-
		1.5	29	-	-	29	-
		1.4	-	37	-	37	-
		1.2	-	-	73	73	-
		1.1	-	-	16	16	6
		2.4	29	-	-	29	-
		2.6	7	-	-	7	-
		2.5	37	-	-	37	-
		2.3	-	-	7	7	-
		2.2	-	-	72	72	-
		2.1	-	-	12	12	6
	TOTALS		126	109	180	415	12

* NON-BID ITEM
FOR INFORMATION ONLY

STORM SEWER STRUCTURES

CATEGORY	STRUCTURE I.D.	STATION	LOCATION	(611.0201)	(611.0303)	(611.0530)	(611.0535)	(611.0624)	(522.1018)	(611.9800.S)	DEPTH FEET	GRATE OR RIM ELEVATION	INVERT
				MANHOLES TYPE 1	INLETS TYPE 3	MANHOLE COVERS TYPE J	MANHOLE COVERS J-SPECIAL	INLET COVERS TYPE H	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH EACH	PIPE GRATES EACH			
010	1.3	8+97.22	18.50' RT	-	1	-	-	1	-	-	3.66	6.52	1.86
	1.2	9+05.04	18.50' RT	-	1	-	-	1	-	-	4.29	6.45	1.16
	1.4	9+05.04	18.50' LT	-	1	-	-	1	-	-	4.01	6.60	1.59
	1.5	9+26.02	38.30' LT	-	1	-	-	1	-	-	3.04	6.02	1.98
	1.6	9+50.00	47.00' LT	-	1	-	-	1	-	-	2.73	5.93	2.20
	1.1	9+74.53	31.19' RT	1	-	1	-	-	-	-	6.18	7.25	-0.18
	1.0	9+97.05	31.19' RT	-	-	-	-	-	1	1	-	-	-0.58
	2.0	10+25.56	31.20' RT	-	-	-	-	-	1	1	-	-	-0.58
	2.1	10+44.16	31.20' RT	1	-	1	-	-	-	-	6.04	7.25	-0.04
	2.2	11+12.89	18.50' RT	-	1	-	-	1	-	-	3.65	6.51	1.86
	2.3	11+19.96	18.50' RT	-	1	-	-	1	-	-	3.42	6.55	2.13
	2.4	11+47.91	24.86' RT	1	-	-	1	-	-	-	2.57	7.25	3.68
	2.5	11+19.96	18.50' LT	-	1	-	-	1	-	-	2.74	6.55	2.81
	2.6	11+27.24	18.50' LT	-	1	-	-	1	-	-	2.67	6.61	2.94
	TOTALS			3	9	2	1	9	2	2			

* NO ADJUSTING RINGS

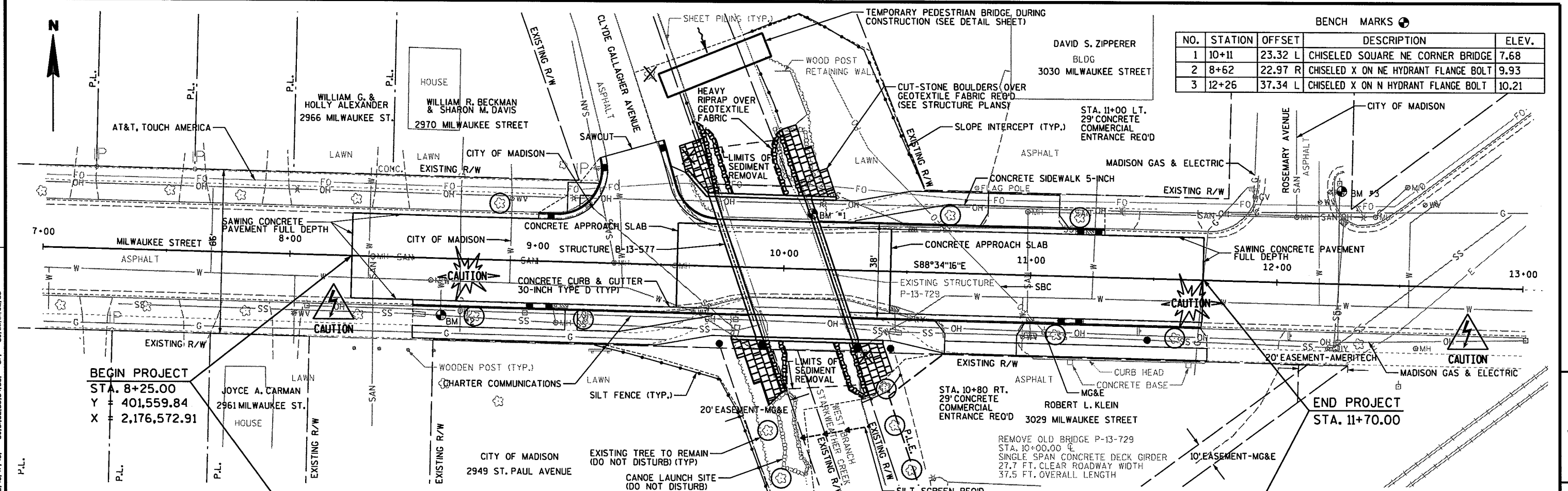
STORM SEWER PIPE REINFORCED
CONCRETE CLASS III 30 DEGREE PRECAST BEND

CATEGORY	STATION	LOCATION	(SPV.0060.01)	(SPV.0060.02)
			15-INCH EACH	18-INCH EACH
010	8+40	21' RT	1	-
	8+48	18' RT	1	-
	9+52	18' RT	-	1
	10+67	18' RT	-	1
	TOTAL		2	2

EARTHWORK DATA

CATEGORY	STATION	DISTANCE LF	END AREA	FILL SF	VOLUME CUT CY	*FILL CY	*FILL EXPANSION CY
			CUT SF				
010	8+25		49.8	0.0	47	0	0
	8+50	25	52.2	0.0	55	0	0
	8+75	25	66.1	0.0	62	0	0
	9+00	25	68.6	0.0	80	0	0
	9+25	25	103.2	0.0	104	1	1
	9+50	25	121.8	1.0	133	1	1
	9+79.52	29.52	121.8	1.0	133	1	1
	STRUCTURE B-28-122				0	0	0
	10+20.83		85.1	0.3	92	1	1
	10+50	29.17	85.1	0.3	76	1	1
	10+75	25	78.5	0.2	74	0	0
	11+00	25	80.3	0.0	72	0	0
	11+25	25	75.9	0.4	64	0	0
	11+50	25	61.6	0.0	41	0	0
	11+70	20	48.7	0.0	41	0	0
	TOTAL				900	4	4

* NOT A BID ITEM, FOR INFORMATION ONLY. FILL EXPANSION 30%

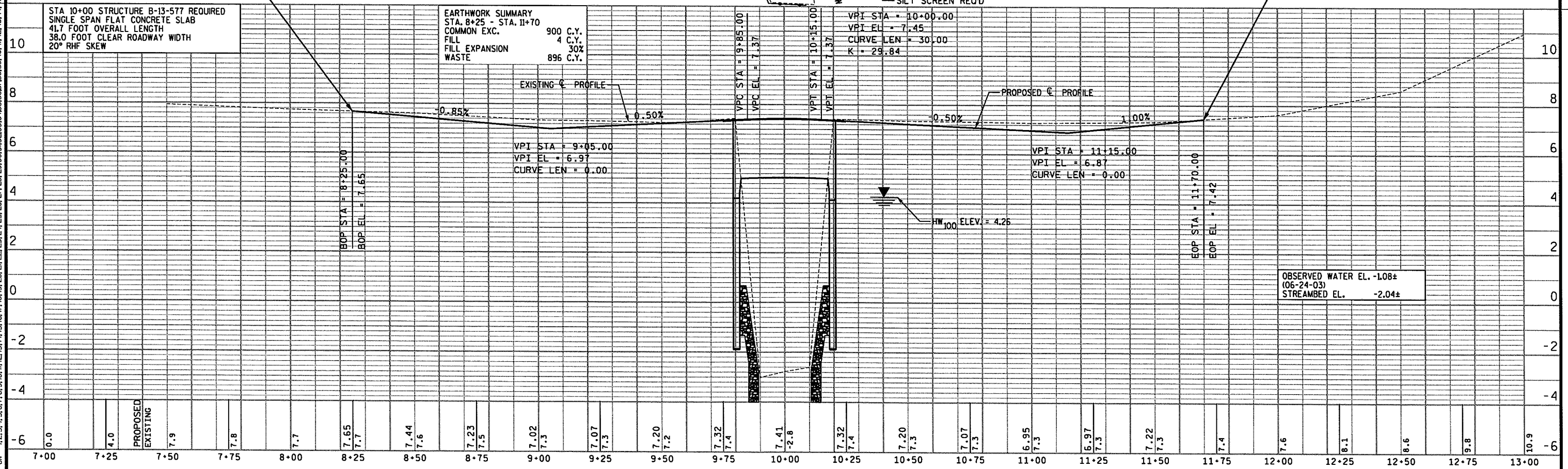


BENCH MARKS

NO.	STATION	OFFSET	DESCRIPTION	ELEV.
1	10+11	23.32 L	CHISELED SQUARE NE CORNER BRIDGE	7.68
2	8+62	22.97 R	CHISELED X ON NE HYDRANT FLANGE BOLT	9.93
3	12+26	37.34 L	CHISELED X ON N HYDRANT FLANGE BOLT	10.21

BEGIN PROJECT
 STA. 8+25.00
 Y = 401,559.84
 X = 2,176,572.91

END PROJECT
 STA. 11+70.00



R/W PROJECT NUMBER	5992-07-49	SHEET NUMBER	4.1	TOTAL SHEETS	
FEDERAL PROJECT NUMBER		PLAT OF RIGHT-OF-WAY REQUIRED FOR MILWAUKEE STREET BRIDGE AND APPROACHES, CITY OF MADISON			
LOCAL STREET		DANE COUNTY			
CONSTRUCTION PROJECT NUMBER	5992-07-50				

NOTES

THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

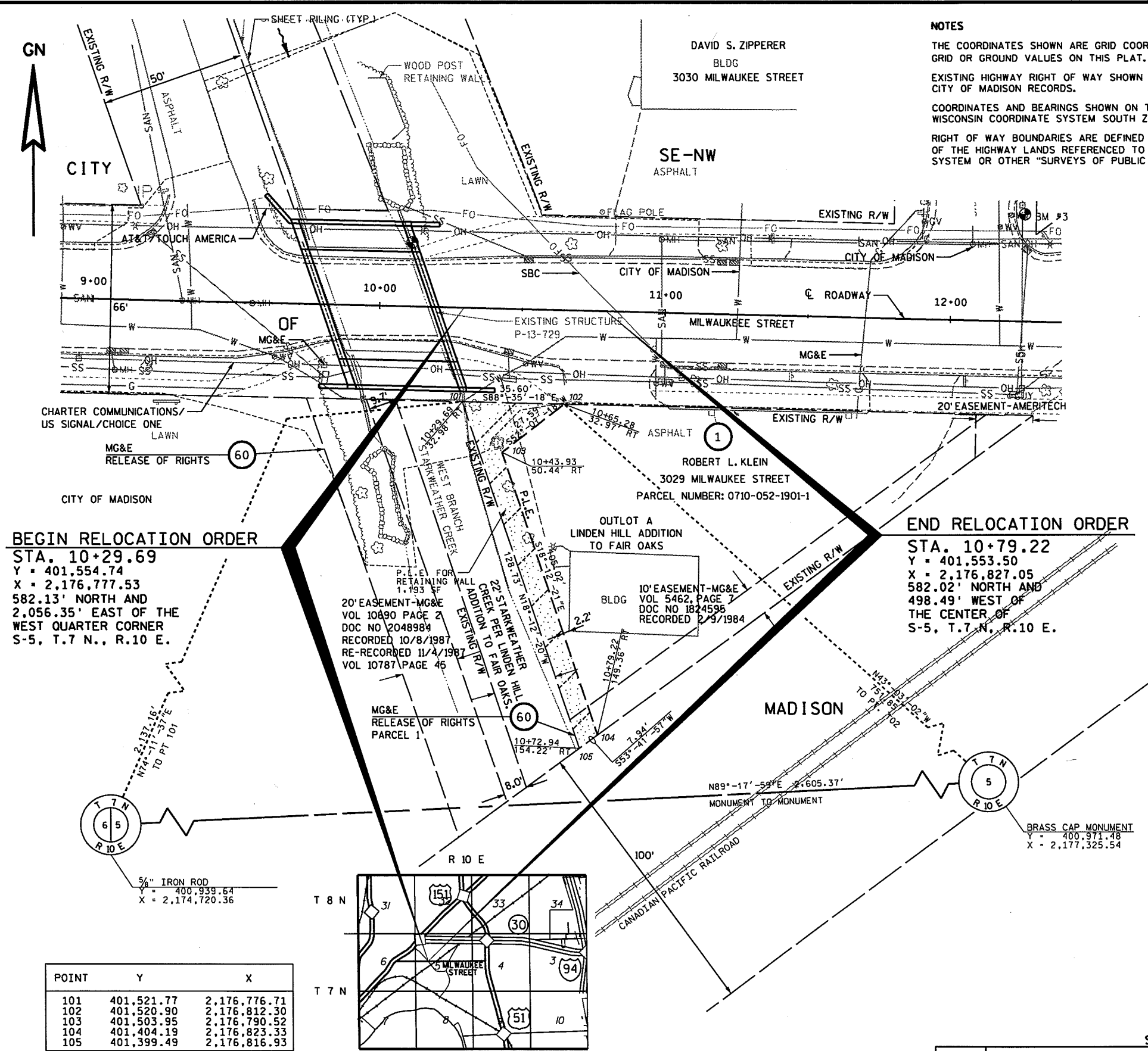
EXISTING HIGHWAY RIGHT OF WAY SHOWN HEREIN IS ESTABLISHED FROM CITY OF MADISON RECORDS.

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE ORIENTED TO THE WISCONSIN COORDINATE SYSTEM SOUTH ZONE, NAD 27.

RIGHT OF WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORDS".

CONVENTIONAL SIGNS AND ABBREVIATIONS

STATE LINE	--- ---	FOUNDATION OR RUIN BUILDING	FDL
COUNTY LINE	--- ---	CEMETERY	T
TOWNSHIP AND RANGE LINES	--- ---	R/W MONUMENT	○
SECTION CORNER	--- ---	NON-MONUMENTED R/W POINT	●
NOTATION FOR COMBUSTIBLE FLUIDS	--- ---	IRON PIN VALVE	IP
NOTATION FOR HIGH VOLTAGE TRANSMISSION LINES	--- ---	WINDMILL	W
BRIDGE	--- ---	MANHOLE, SEPTIC VENT, WELL, ETC.	M (Type)
STREAM OR RIVER	--- ---	GAS PUMPS	GP
LAKE	--- ---	BUSHES	B
CULVERT (Box, Pipe Or Cattle Pass)	--- ---	TREES (Deciduous)	T (Type)
FENCE	--- ---	TREES (Coniferous)	T (Type)
TEMPORARY INTEREST	--- ---	WOODS	W
EASEMENT (Highway, Permanent Limited or Restricted Development)	--- ---	ENCROACHING SIGN	E-1 SIGN
BEAM GUARD	--- ---	ELECTRIC POLE TELEPHONE POLE PEDESTAL (Label Type - Communications, Electric)	
TRANSMISSION STRUCTURES (Line Optional)	--- ---	NO ACCESS (By Acquisition)	
RAIL LINE	--- ---	NO ACCESS (By Statutory Authority)	
		NO ACCESS (By Previous Project)	



APPROVED BY THE CITY OF MADISON COMMON COUNCIL

APPROVED BY THE CITY OF MADISON PLAN COMMISSION

APPROVED BY THE CITY OF MADISON BOARD OF PUBLIC WORKS

LAYOUT SCALE
 0 40
 FEET

TOTAL NET LENGTH OF CENTERLINE = 0.010 MI.

ORIGINAL PLAT PREPARED BY

MSA

PROFESSIONAL SERVICES
 TRANSPORTATION • MUNICIPAL • SUBDIVISION
 DEVELOPMENT • ENVIRONMENTAL

2901 International Lane, Suite 300 Madison, WI 53704
 608-242-7779 1-800-446-0679 Fax: 608-242-5664

DATE: _____ (Registered Land Surveyor)

POINT	Y	X
101	401,521.77	2,176,776.71
102	401,520.90	2,176,812.30
103	401,503.95	2,176,790.52
104	401,404.19	2,176,823.35
105	401,399.49	2,176,816.93

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER	INTEREST REQUIRED	TOTAL SF	R/W SF REQUIRED			TOTAL SF REM.	P.L.E. SF
				NEW	EXISTING	TOTAL		
1	ROBERT L. KLEIN	P.L.E. AND T.I.	12,626	0.00	0.00	0.00	12,626	1,193
60	MG&E	RELEASE OF RIGHTS	-	-	-	-	-	-

AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED.

BENCH MARKS				
NO.	STATION	OFFSET	DESCRIPTION	ELEV.
1	10+11	23.32 L	CHISELED SQUARE ON BRIDGE	7.68
2	8+62	22.97 R	CHISELED X ON HYDRANT	9.93
3	12+26	37.34 L	CHISELED X ON HYDRANT	10.21

DESIGN DATA

LIVELOAD
 DESIGN RATING : HS-20
 INVENTORY RATING : HS-23
 OPERATIONAL RATING : HS-39

TRAFFIC DATA:
 A.D.T. (2005) = 11,325
 A.D.T. (2025) = 13,350

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.
 MAX. STD. PERMIT VEHICLE LOAD = 230 KIPS MIN.

ULTIMATE DESIGN STRESSES:
 CONCRETE MASONRY - SUPERSTRUCTURE $f_c' = 4,000$ P.S.I.
 - ALL OTHER $f_c' = 3,500$ P.S.I.
 BAR STEEL REINFORCEMENT HS BRIDGES AND BAR STEEL REINFORCEMENT HS COATED BRIDGES $f_y = 60,000$ P.S.I.

FOUNDATION DATA:
 ABUTMENTS SHALL BE SUPPORTED ON PILING CIP CONCRETE $10\frac{3}{4}$ -INCH DRIVEN TO A MINIMUM BEARING VALUE OF 55 TONS PER PILE. ESTIMATED PILE LENGTHS ARE 105'-0" AT BOTH ABUTMENTS. PILING SHELL THICKNESS SHALL BE A MINIMUM $\frac{1}{4}$ ".

HYDRAULIC DATA:
100 YEAR FREQUENCY
 DRAINAGE AREA 11.4 SQ. MI.
 Q_{100} - TOTAL 480 C.F.S.
 - THRU BRIDGE 480 C.F.S.
 VELOCITY - THRU BRIDGE 2.1 FT./SEC.
 WATERWAY AREA - THRU BRIDGE 229 SQ. FT.
 SCOUR CRITICAL CODE 8
 HIGH WATER 100 ELEVATION $4.26 \pm$
 OVERTOPPING FREQUENCY > 100
 Q_2 WATER ELEVATION $1.50 \pm$

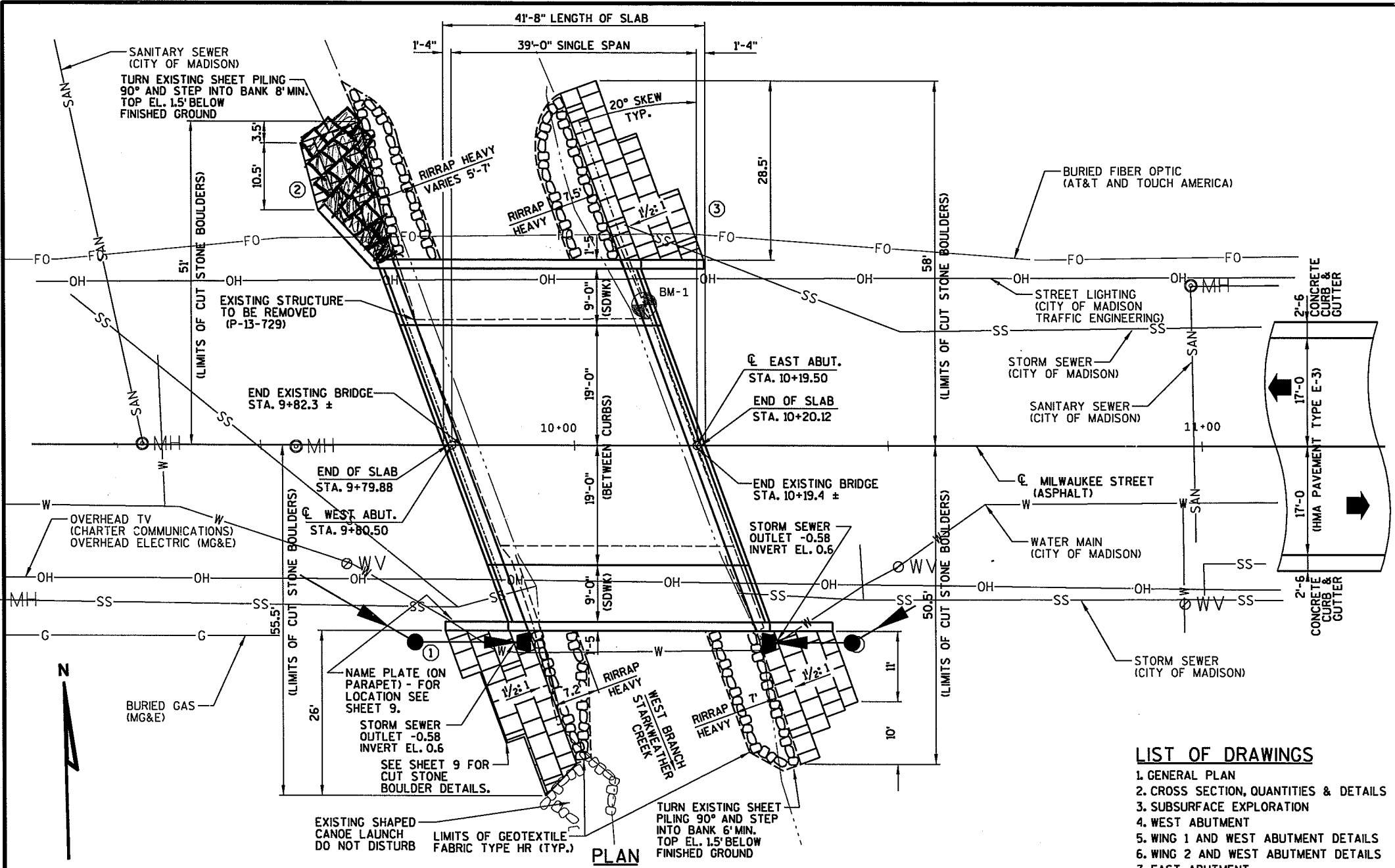
TEMPORARY PEDESTRIAN STRUCTURE
 MINIMUM DRAINAGE AREA 70 SQ. FT.
 Q_5 - TOTAL 260 C.F.S.
 Q_5 WATER ELEVATION $2.53 \pm$

NOTE: USGS ELEVATIONS = CITY OF MADISON ELEVATIONS + 845.60'

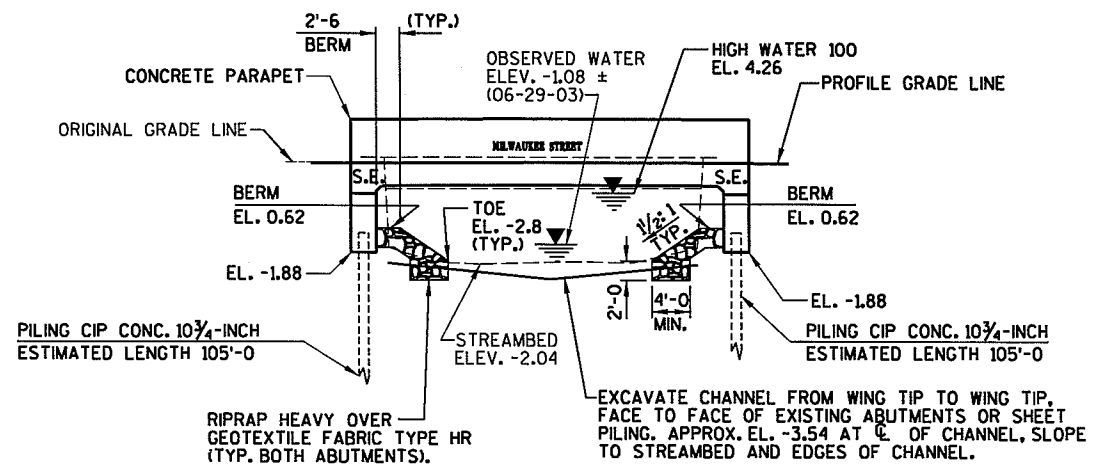
BRIDGE OFFICE CONTACT:
 FINN HUBBARD
 (608) 266-8489

LIST OF DRAWINGS

1. GENERAL PLAN
2. CROSS SECTION, QUANTITIES & DETAILS
3. SUBSURFACE EXPLORATION
4. WEST ABUTMENT
5. WING 1 AND WEST ABUTMENT DETAILS
6. WING 2 AND WEST ABUTMENT DETAILS
7. EAST ABUTMENT
8. EAST ABUTMENT DETAILS
9. ARCHITECTURAL SURFACE DETAILS & PIPE UNDERDRAIN
10. SUPERSTRUCTURE & PARAPET DETAILS
11. SUPERSTRUCTURE SECTIONS & DETAILS



PLAN
(SINGLE SPAN FLAT CONCRETE SLAB)



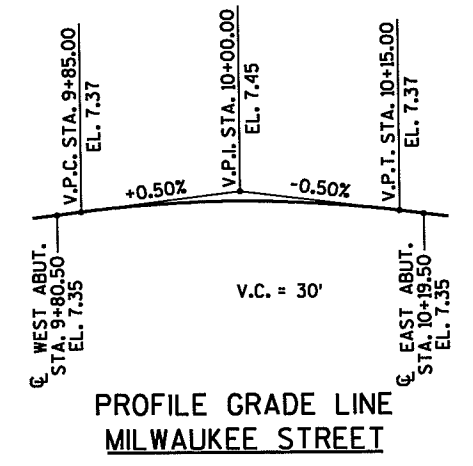
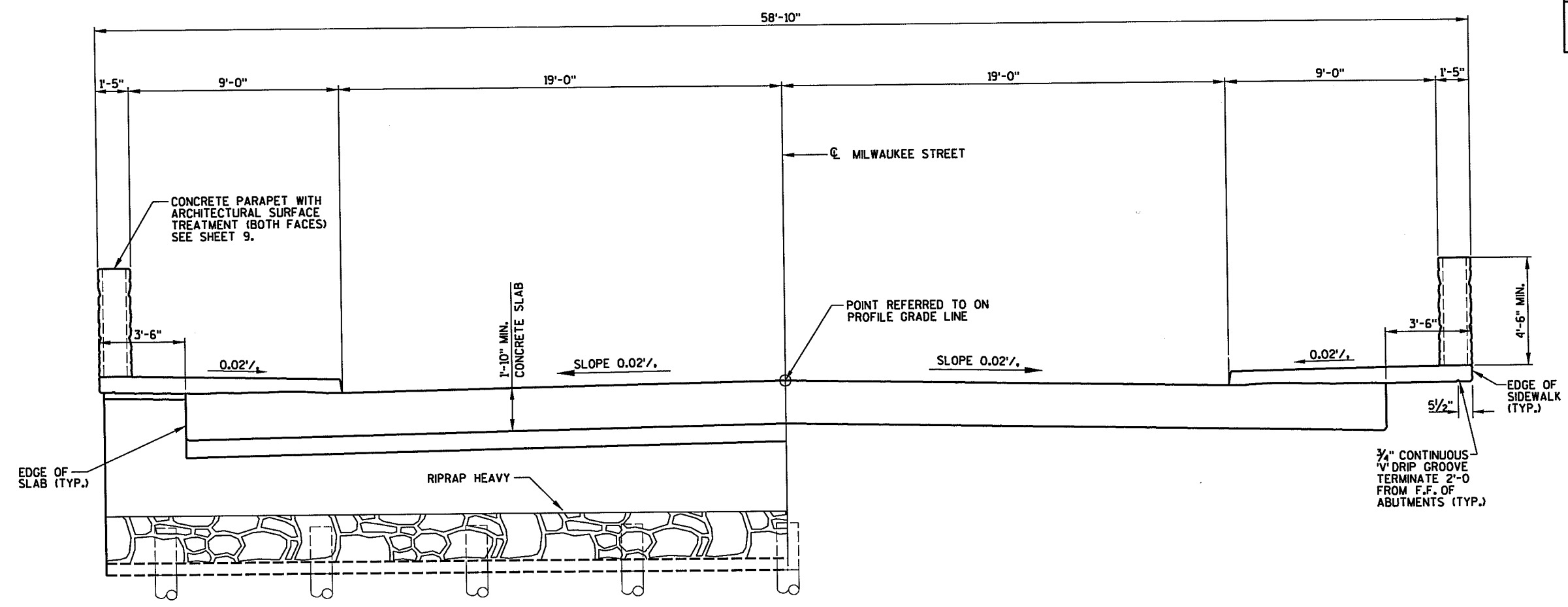
ELEVATION
(NORMAL TO ϕ MILWAUKEE STREET)



8

8

No.	Date	Revision	By
<p>PLANS PREPARED BY MSA TRANSPORTATION • MUNICIPAL DEVELOPMENT • ENVIRONMENTAL 1230 South Boulevard Baraboo, WI 53813 608-356-2771 1-800-363-4505 Fax: 608-356-2770</p>			
<p>STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION</p>			
<p>STRUCTURE B-13-577 MILWAUKEE STREET OVER WEST BRANCH STARKWEATHER CREEK</p>			
County	DANE	Town/City/Village	MADISON
Design Spec.	AASHTO 2002	Load	HS-20
Designed By	CHK	Const. Spec.	WI "03"
Checked By	BPT	Drawn By	RLR
Checked By		Plans Checked	
<p>Approved: _____ Date _____ Chief Structural Design Engineer</p>			
<p>GENERAL PLAN</p>			<p>SHEET 1 OF 11</p>



AT ABUTMENTS IN SPAN
CROSS SECTION THRU BRIDGE
 (LOOKING EAST)

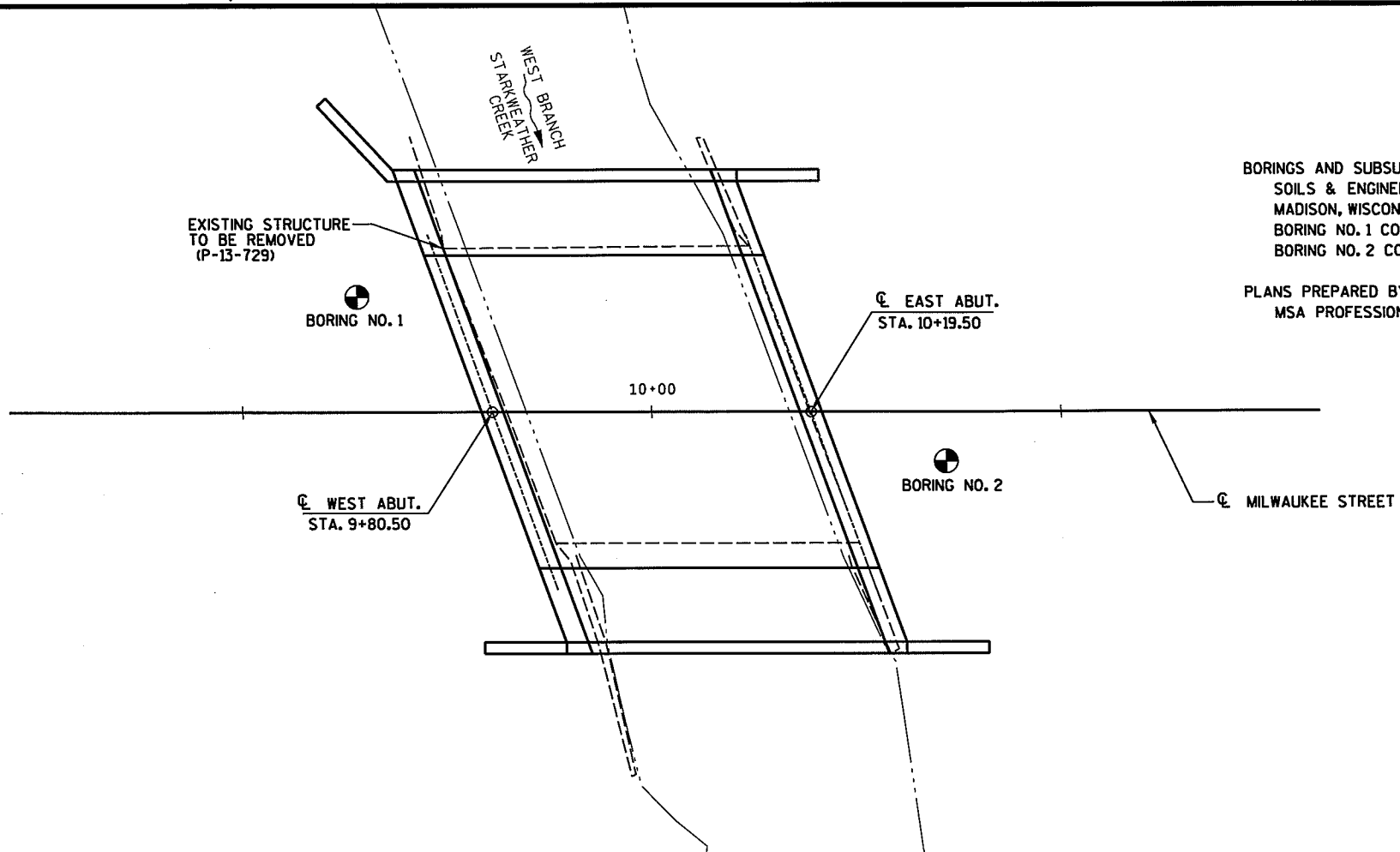
TOTAL ESTIMATED QUANTITIES

BID ITEMS	UNIT	WEST ABUT.	EAST ABUT.	SUPER	TOTAL
REMOVING OLD STRUCTURE STA. 10+00	LS	-	-	-	1
EXCAVATION FOR STRUCTURES BRIDGES B-13-577	LS	-	-	-	1
BACKFILL STRUCTURE	CY	280	270	-	550
CONCRETE MASONRY BRIDGES	CY	61.4	56.0	207.6	325
PROTECTIVE SURFACE TREATMENT	SY	-	-	440	440
BAR STEEL REINFORCEMENT HS BRIDGES	LB	4480	4220	-	8700
BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	725	625	31,020	32,370
PILING CIP CONCRETE DELIVERED & DRIVEN 10 3/4-INCH	LF	945	945	-	1890
RUBBERIZED MEMBRANE WATERPROOFING	SY	12.5	12.5	-	25
RIPRAP HEAVY	CY	75	75	-	150
PIPE UNDERDRAIN 6-INCH	LF	80	80	-	160
PIPE UNDERDRAIN UNPERFORATED 6-INCH	LF	35	35	-	70
GEOTEXTILE FABRIC TYPE DF (SCHEDULE A)	SY	55	55	-	110
GEOTEXTILE FABRIC TYPE HR	SY	200	220	-	420
CONSTRUCTION STAKING STRUCTURE LAYOUT	LS	-	-	-	1
CUT STONE BOULDERS	SF	405	475	-	880
SALVAGED STEEL SHEET PILING	LS	-	-	-	1
STAINING CONCRETE	SF	100	85	725	910
ARCHITECTURAL SURFACE TREATMENT	SF	100	85	725	910
NON-BID ITEMS					
PREFORMED FILLER	SIZE	-	-	-	1/2" & 3/4"

GENERAL NOTES

- DRAWINGS SHALL NOT BE SCALED.
- ALL ELEVATIONS SHOWN ARE REFERENCED TO CITY OF MADISON DATUM. ADD 845.60 TO CONVERT TO U.S.G.S. DATUM.
- BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.
- THE EXISTING GROUNDLINE SHALL BE THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES" FOR THE ABUTMENTS.
- THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.
- AS DETAILED IN THE PLANS APPLY AN ARCHITECTURAL SURFACE TREATMENT TO THE WINGS AND BOTH FACES OF PARAPET. THE FORMLINER SHALL REPLICATE "RANDOM ASHLAR CUT STONE". THE STONES SHALL BE 9" HIGH WITH A MAXIMUM RELIEF OF 1" (SEE SHEET 9). ALL FORMLINED AREAS SHALL BE STAINED TO RESEMBLE WEATHERED LIMESTONE.
- THE EMBANKMENTS ADJACENT TO THE BRIDGE SHALL BE COVERED WITH RIPRAP HEAVY AND CUT STONE BOULDERS TO THE EXTENT SHOWN ON THE GENERAL PLAN AND SHEET 9 OR AS DIRECTED BY THE ENGINEER. THE ENTIRE SLOPE UNDER THE CUT STONE BOULDERS AND RIPRAP HEAVY SHALL BE COVERED WITH GEOTEXTILE FABRIC TYPE HR WITH A 1'-0 PERIMETER WRAP.
- AT THE ABUTMENTS ALL EXCAVATED VOLUME NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE. THE BACKFILL STRUCTURE ESTIMATED QUANTITIES ASSUMED A 1 1/2:1 EXCAVATION SLOPE AT THE ABUTMENTS.
- SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE, UNLESS AN ALTERNATE METHOD IS APPROVED BY THE ENGINEER.
- THIS STRUCTURE WILL REPLACE EXISTING BRIDGE, P-13-729, A 27.7 FT. LONG SINGLE SPAN CONCRETE DECK GIRDER WITH FULL RETAINING CONCRETE ABUTMENTS.
- PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE TOP OF SLAB, TOP OF SIDEWALKS AND ALL FACES OF THE PARAPETS, THE EDGES OF SIDEWALKS AND THE BOTTOM OF SIDEWALK TO THE EDGE OF SLAB. THE PROTECTIVE SURFACE TREATMENT SHALL BE NON-PIGMENTED.

No.	Date	Revision	By
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-13-577			
Const. Spec. WI "03"	Drawn By	RLR	Plans Checked
CROSS SECTION, QUANTITIES & DETAILS			SHEET 2 OF 11



BORINGS AND SUBSURFACE REPORT PERFORMED BY:
 SOILS & ENGINEERING SERVICES, INC.
 MADISON, WISCONSIN
 BORING NO. 1 COMPLETED ON 11-14-03
 BORING NO. 2 COMPLETED ON 11-17-03

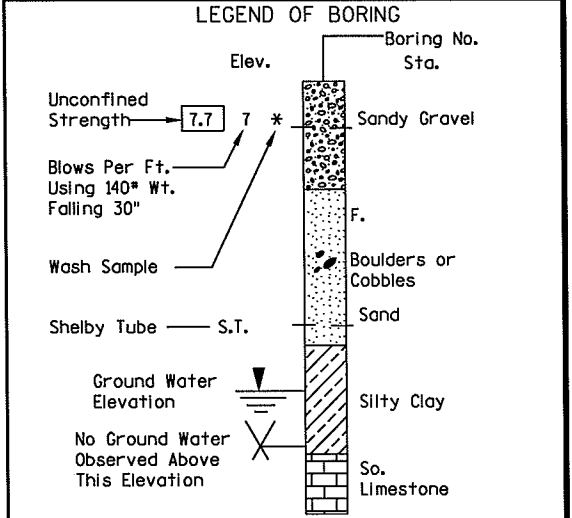
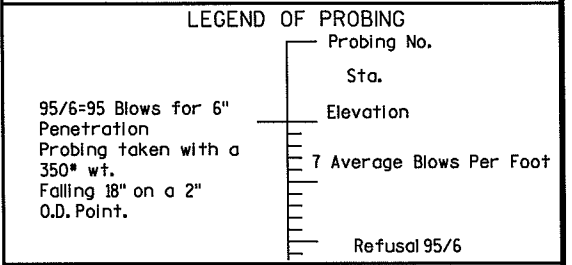
PLANS PREPARED BY:
 MSA PROFESSIONAL SERVICES, INC.

STATE PROJECT NUMBER	SHEET NO.
5992-07-50	

ABBREVIATIONS

VF - Very Fine F - Fine M - Medium C - Coarse
 Ws - Weathered So - Sound

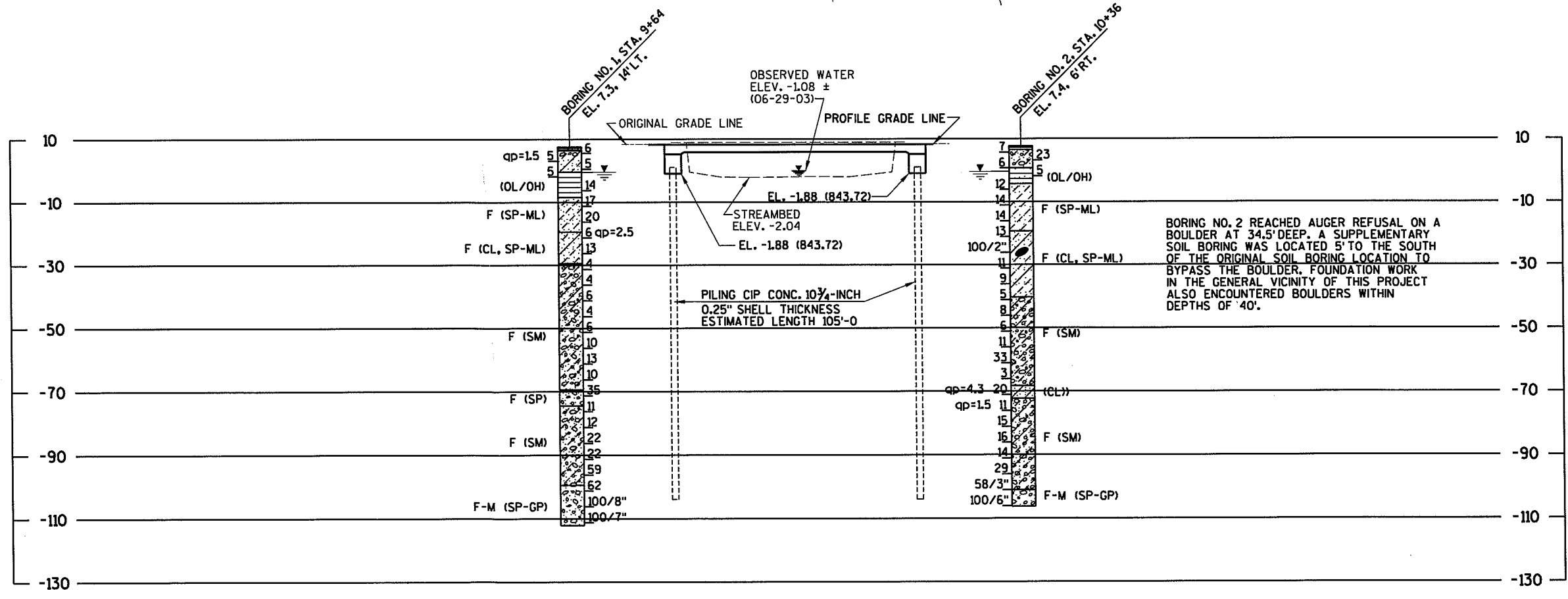
MATERIAL SYMBOLS



Unless otherwise specified, the blows per foot at the locations indicated are based on driving a 2" O.D. x 1.4" I.D. split spoon sampler with a 140# hammer having a free fall of 30". The blow count is taken in undisturbed soil immediately below a cased or open hole eliminating side friction on the drive pipe.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

To obtain relative data concerning the character of material and upon which the foundation might be built, borings and/or soundings were made at points approximately as indicated on this drawing. The data presented herein represents the findings of the subsurface explorations made. However, because the depths investigated are limited and the area of the borings and/or soundings is very small in relation to the entire area, the Division of Highways does not warrant conditions below the depths investigated or that the classification of material encountered in these investigations is necessarily typical of the entire site.

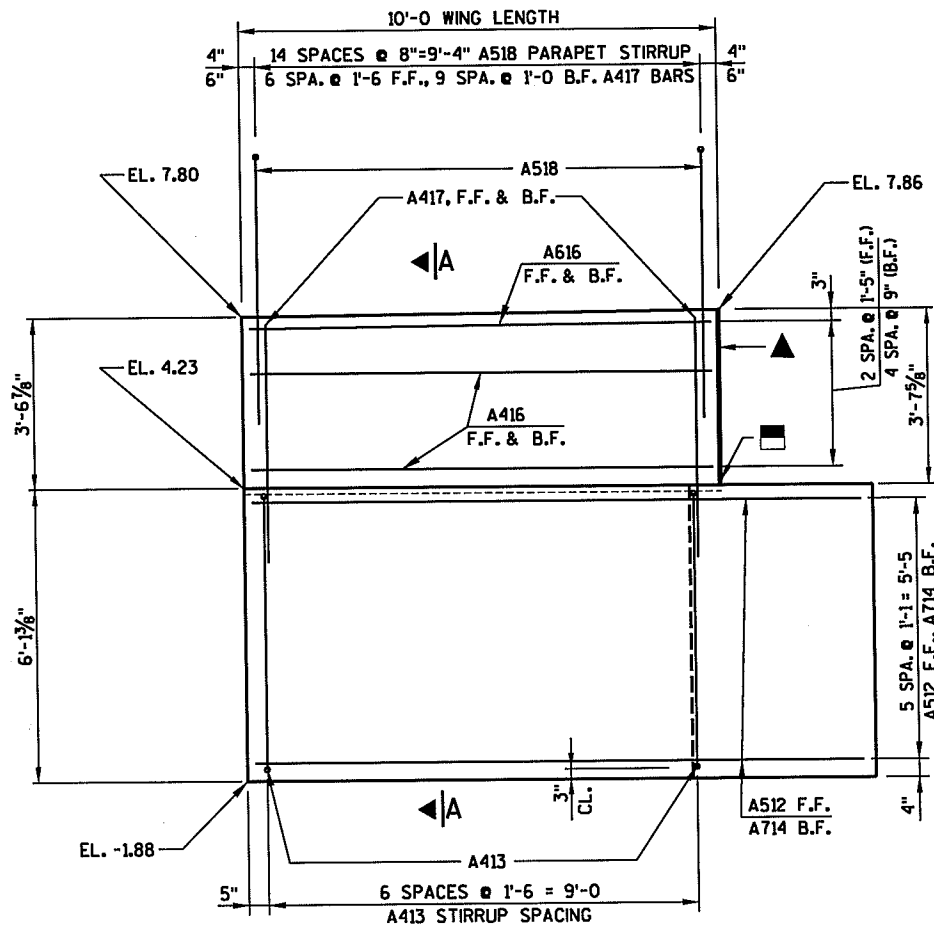


8

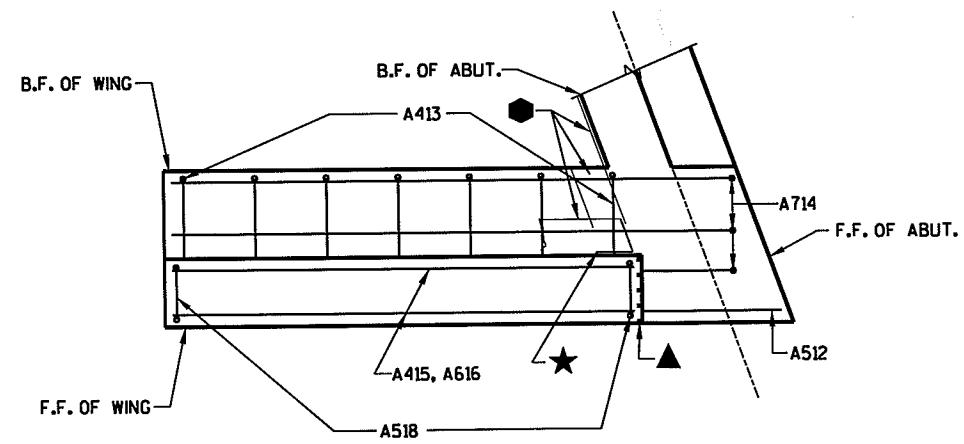
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No.	Date	Revision	By
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE		B-13-577	
Const. Spec. WI "03"	Drawn By RLR	Plans Checked	
SUBSURFACE EXPLORATION			SHEET 3 OF 11

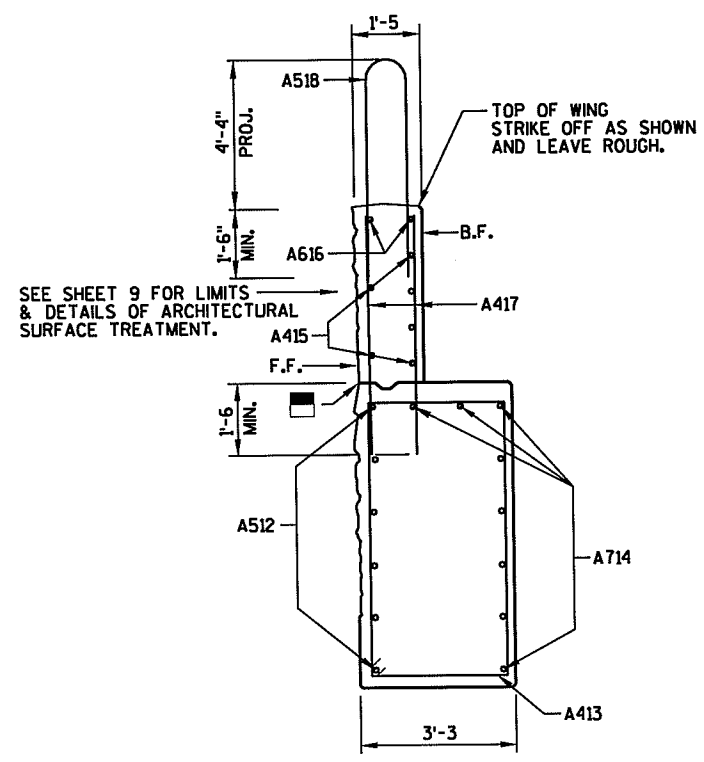
SEE SHEET 4 LEGEND FOR DESCRIPTION OF



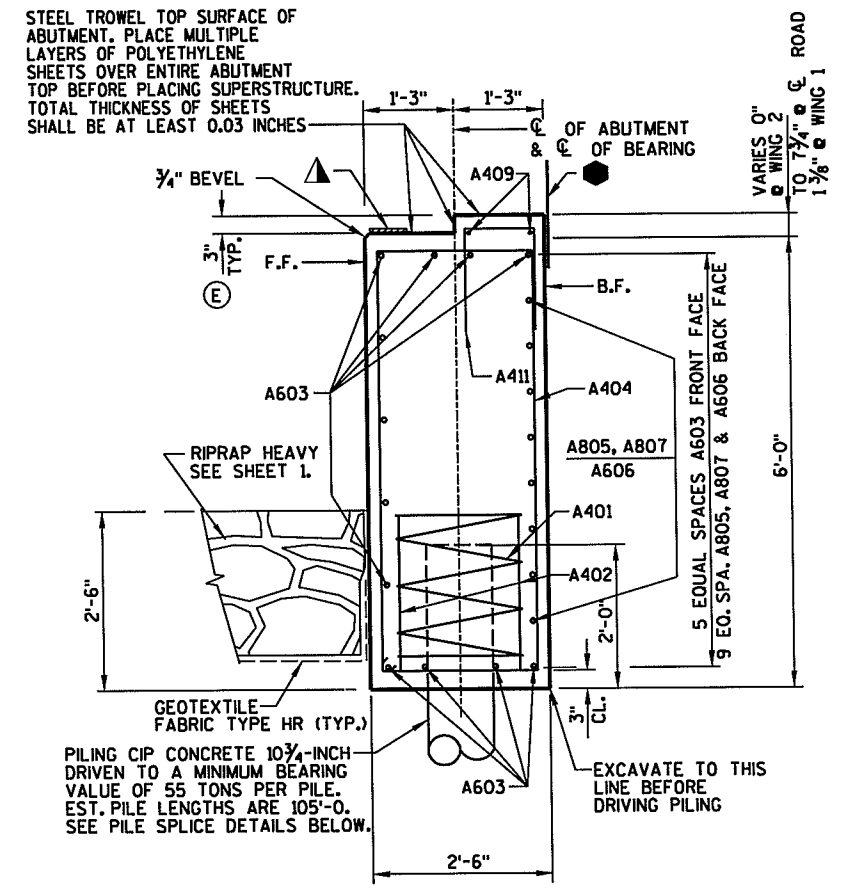
ELEVATION - WING 1



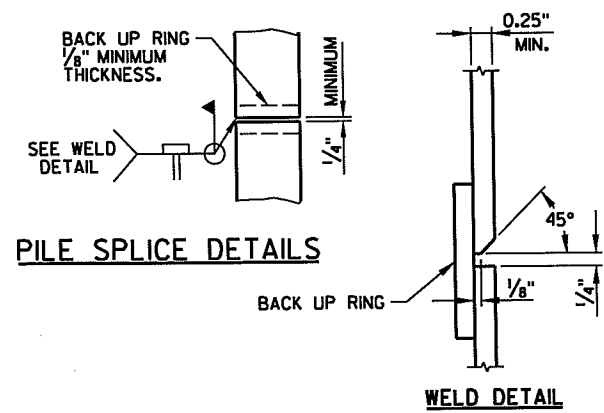
PLAN - WING 1



SECTION A-A THRU WING 1



TYPICAL SECTION THRU ABUTMENT



PILE SPLICE DETAILS

WELD DETAIL

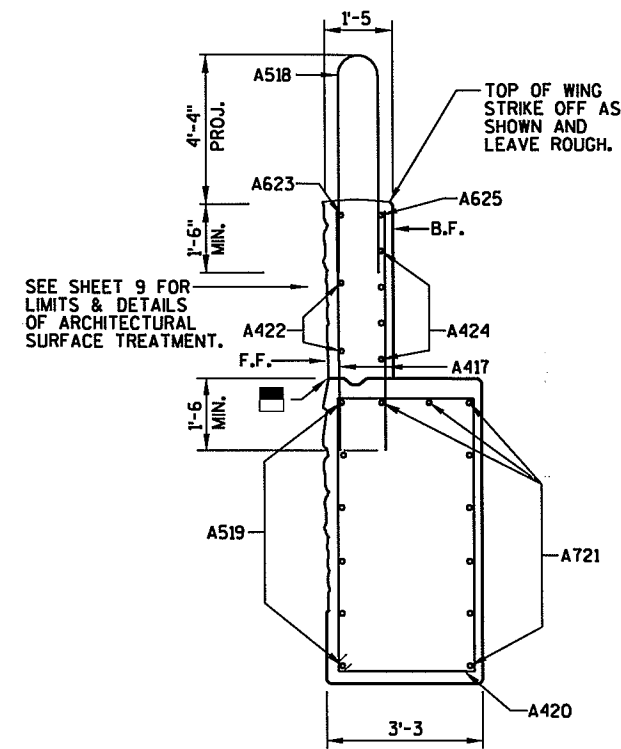
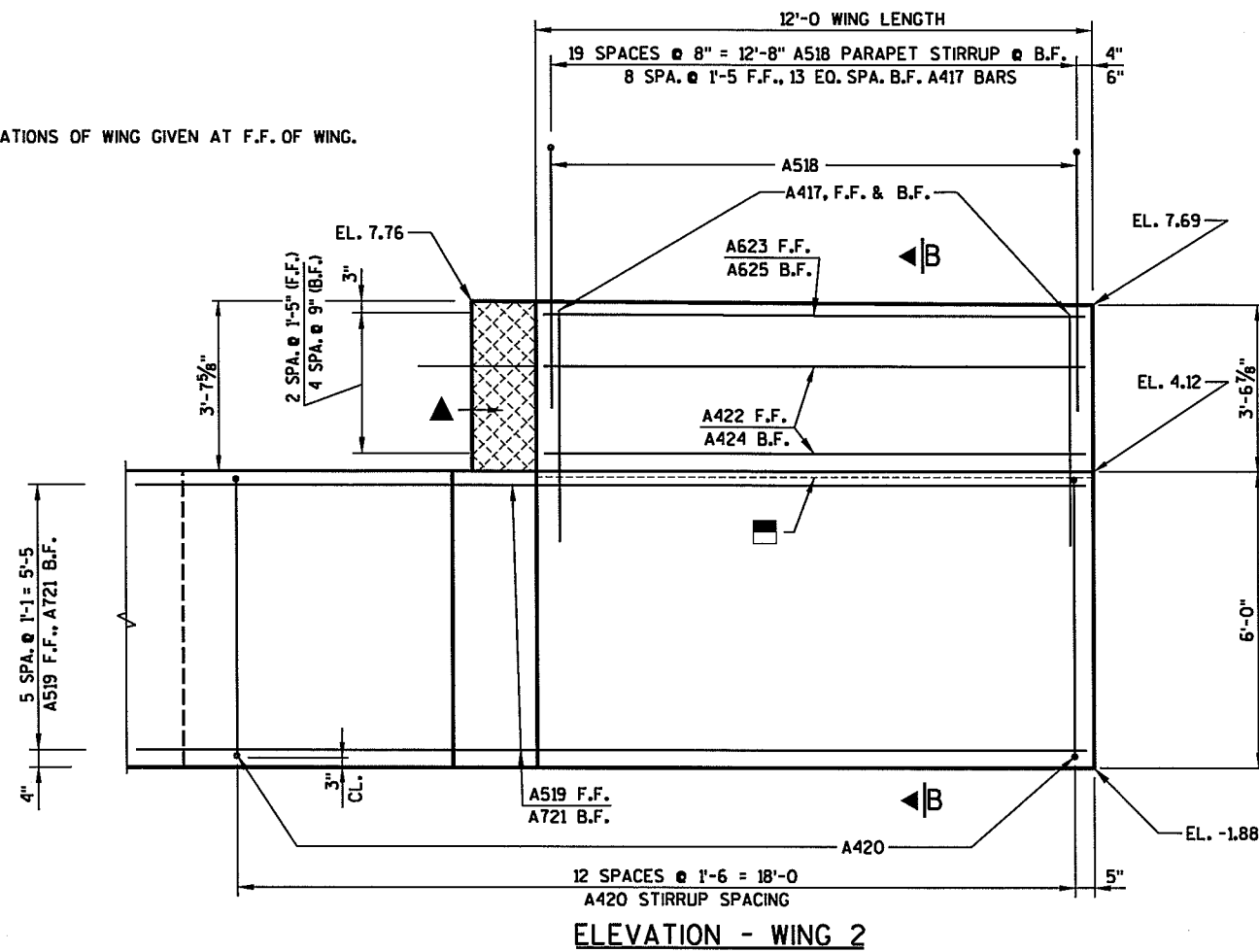
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8

No.	Date	Revision	By
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-13-577			
Const. Spec. WI "03"	Drawn By	RLR	Plans Checked
WING 1 AND WEST ABUTMENT DETAILS			SHEET 5 OF 11

COATED 725 LBS.
UNCOATED 4480 LBS.

ELEVATIONS OF WING GIVEN AT F.F. OF WING.



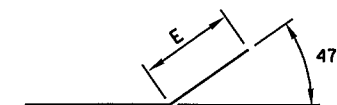
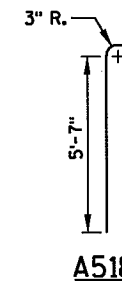
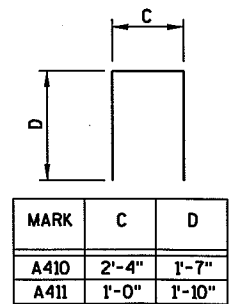
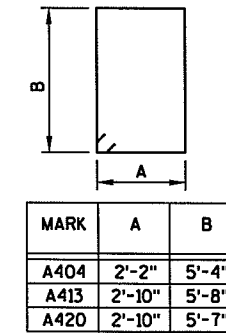
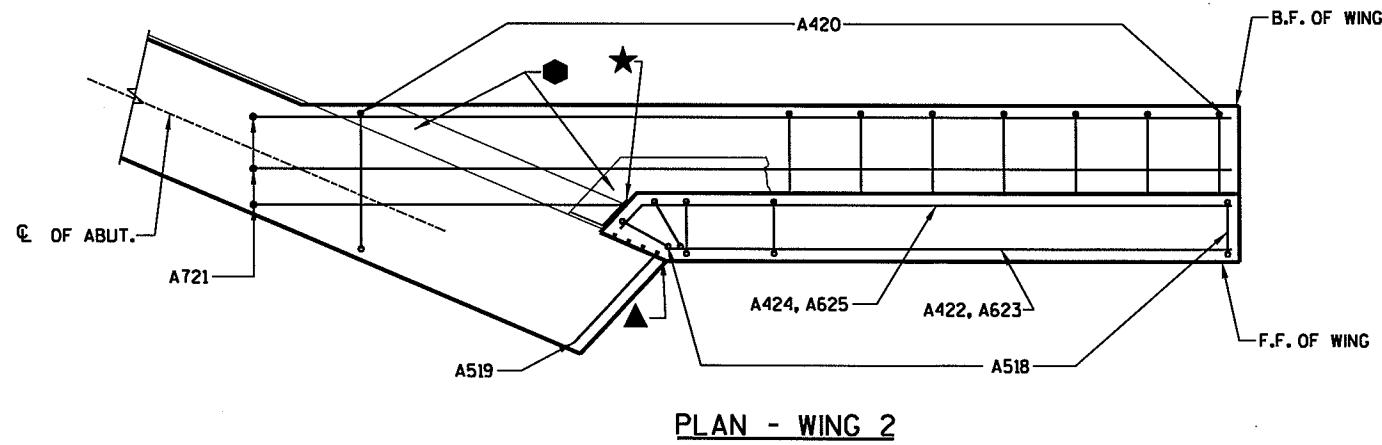
SECTION B-B THRU WING 2

BILL OF BARS

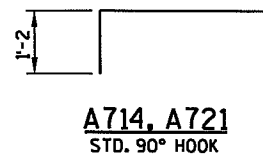
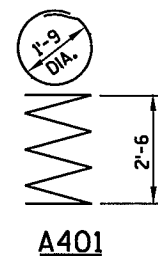
MARK	NO. REQ'D	LENGTH	BENT	COATED	LOCATION
A401	9	28-0	X		AT BODY PILES - 1 PER PILE 5 SPIRAL WRAPS
A402	18	2-4			" " - 2 " " - VERT.
A603	24	32-6			BODY - F.F., TOP & BOTTOM - HORIZ.
A404	70	15-6	X		" - STIRRUPS - VERT.
A805	8	10-0			" - B.F. @ WING 1 - HORIZ.
A606	16	24-8			" " CENTER - "
A807	8	12-0			" - B.F. @ WING 2 - "
A408	6	20-0			" - TOP - "
A409	4	28-10			" " @ SEMI-EXP. BACKWALL - "
A410	26	5-4	X		" " CENTER - VERT.
A411	38	4-6	X		" " @ SEMI-EXP. BACKWALL - "
A512	6	12-8			WING 1 - BASE - F.F. - HORIZ.
A413	7	17-6	X		" " - STIRRUP - VERT.
A714	8	12-8	X		" " - B.F. & CENTER - HORIZ.
A415	6	9-8		C	" " - TOP - F.F. & B.F. - "
A616	2	9-8		C	" " " " " " - "
A417	40	5-0		C	WINGS " " " " - VERT.
A518	35	12-0	X	C	" - PARAPET STIRRUP - "
A519	6	14-4	X		WING 2 - BASE - F.F. - HORIZ.
A420	13	17-4	X		" " - STIRRUP - VERT.
A721	8	21-6	X		" " - B.F. & CENTER - HORIZ.
A422	2	11-8		C	" " - TOP - F.F. - "
A623	1	11-8		C	" " " " " " - "
A424	4	13-0	X	C	" " - TOP - B.F. - "
A625	1	12-10	X	C	" " " " " " - "

EPOXY COAT BARS AS NOTED IN BILL OF BARS.

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.



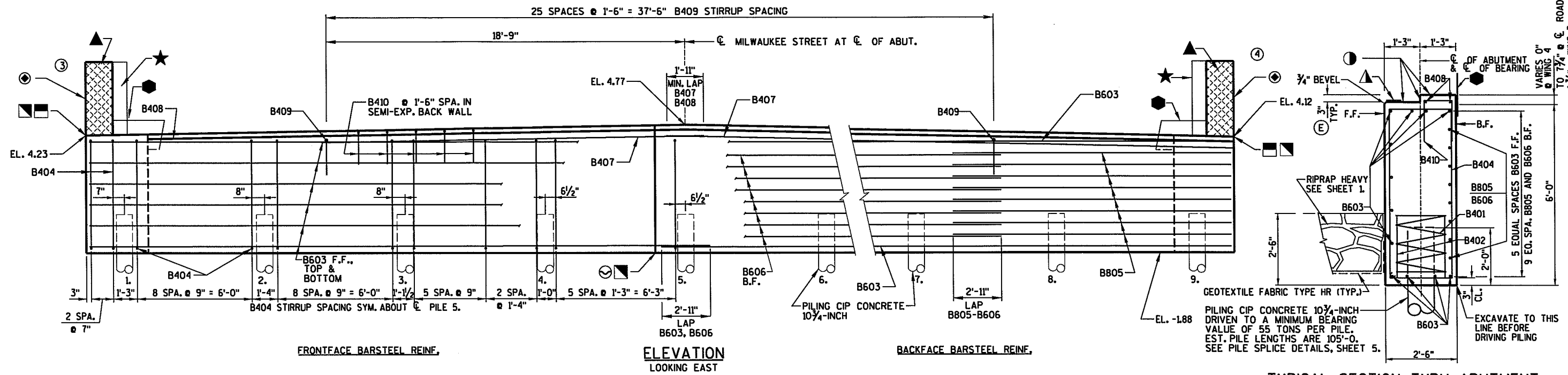
MARK	E
A519	2'-8"
A424	8"
A625	8"



SEE SHEET 4 LEGEND FOR DESCRIPTION OF

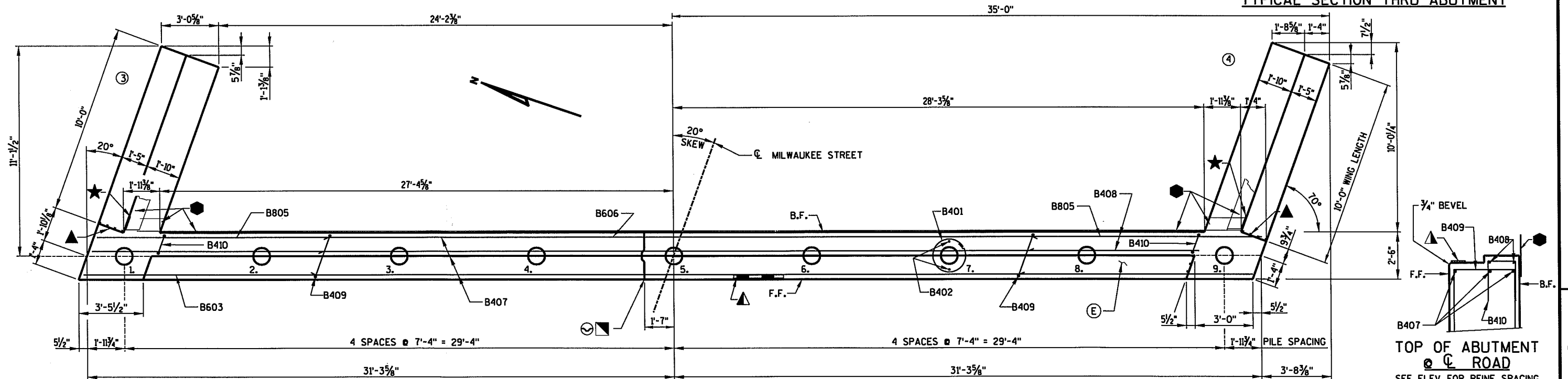
No.	Date	Revision	By
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-13-577			
Const. Spec. WI "03"	Drawn By RLR	Plans Checked	
WING 2 AND WEST ABUTMENT DETAILS			SHEET 6 OF 11

FOR WING DETAILS SEE SHEET 8.



ELEVATION
LOOKING EAST

TYPICAL SECTION THRU ABUTMENT

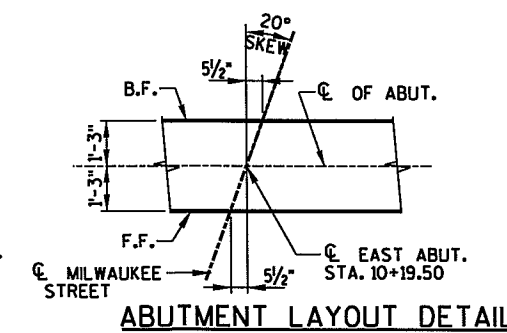


PLAN

TOP OF ABUTMENT
@ CL ROAD
SEE ELEV. FOR REINF. SPACING

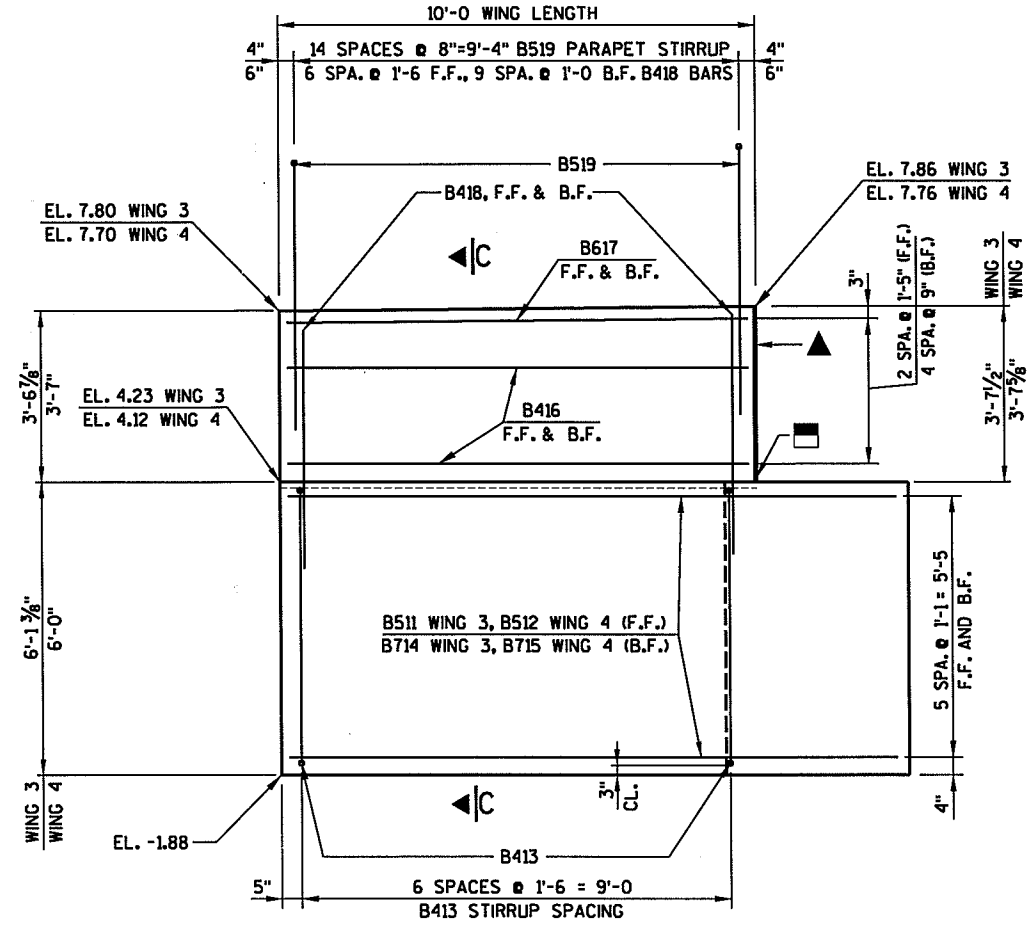
LEGEND

- ① — STEEL TROWEL TOP SURFACE OF ABUTMENT. PLACE MULTIPLE LAYERS OF POLYETHYLENE SHEETS OVER ENTIRE ABUTMENT TOP BEFORE PLACING SUPERSTRUCTURE. TOTAL THICKNESS OF SHEETS SHALL BE AT LEAST 0.03 INCHES.
- ▲ — 1/2" FILLER EXTEND AS SHOWN. SEAL ALL EXPOSED HORIZONTAL & VERTICAL SURFACES OF FILLER WITH NON-STAINING GRAY, NON-BITUMINOUS JOINT SEALER. (1" DEEP & HOLD 1/8" BELOW SURFACE OF CONCRETE).
- ▲ — 4"x 3/4" FILLER, EXTEND FULL LENGTH OF ABUTMENT BETWEEN EDGES OF SLAB.
- ⊙ — KEYED CONST. JOINT FORMED BY BEVELED 2 x 8. PLACE 18" WIDE RMW ON B.F. AT JOINT.
- ⊙ — SEMI-EXPANSION STEP. CONSTRUCT 3" DEEPER THAN ABUTMENT BACKWALL.
- — INDICATES WING NUMBER
- F.F. — FRONT FACE B.F. — BACK FACE
- CL. — CLEAR
- ★ — VERTICAL 18" WIDE RUBBERIZED MEMBRANE WATERPROOFING. EXTEND FROM BRIDGE SEAT TO TOP OF WINGS.
- — HORIZONTAL 18" WIDE RUBBERIZED MEMBRANE WATERPROOFING. EXTEND ACROSS B.F. BETWEEN WINGS.
- — OPTIONAL KEYED CONST. JOINT ON WING FORMED BY BEVELED 2 x 6. PLACE ● ON B.F. AT JOINT IF JOINT IS USED.
- ▣ — 3/4" "V" GROOVE ON FRONT FACE AND END OF ABUTMENT AT CONSTRUCTION JOINT. DO NOT USE IN ARCH. SURF. TREATMENT AREAS.
- ⊙ — ARCHITECTURAL SURFACE TREATMENT ON F.F. OF WINGS. FOR LIMITS SEE SHEET 9.

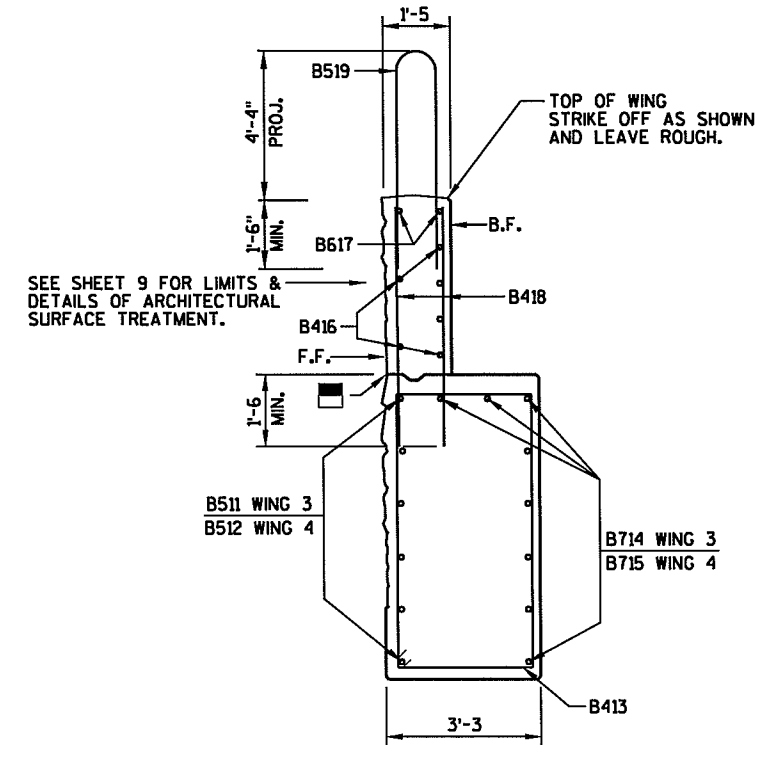


ABUTMENT LAYOUT DETAIL

No.	Date	Revision	By
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-13-577			
Const. Spec. WI "03"	Drawn By RLR	Plans Checked	
EAST ABUTMENT			SHEET 7 OF 11



ELEVATION - WINGS 3 & 4

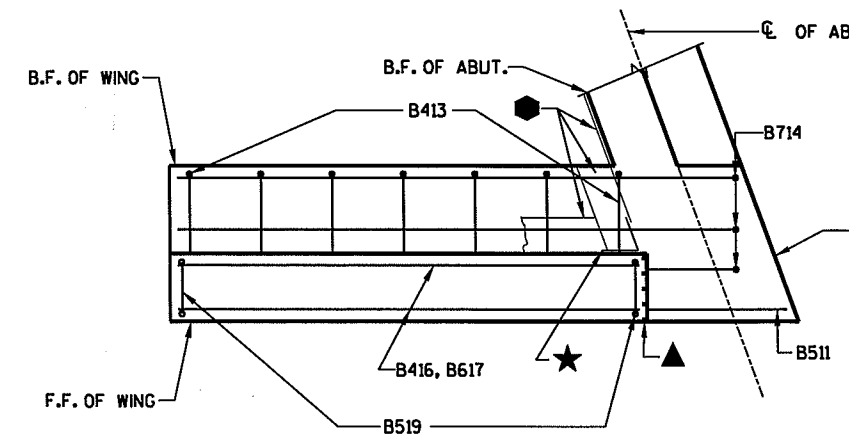
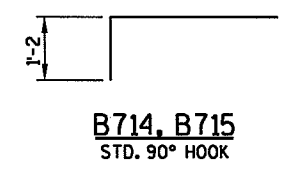
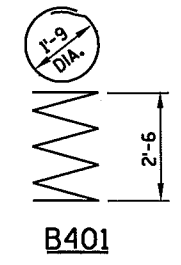


SECTION C-C THRU WINGS 3 & 4

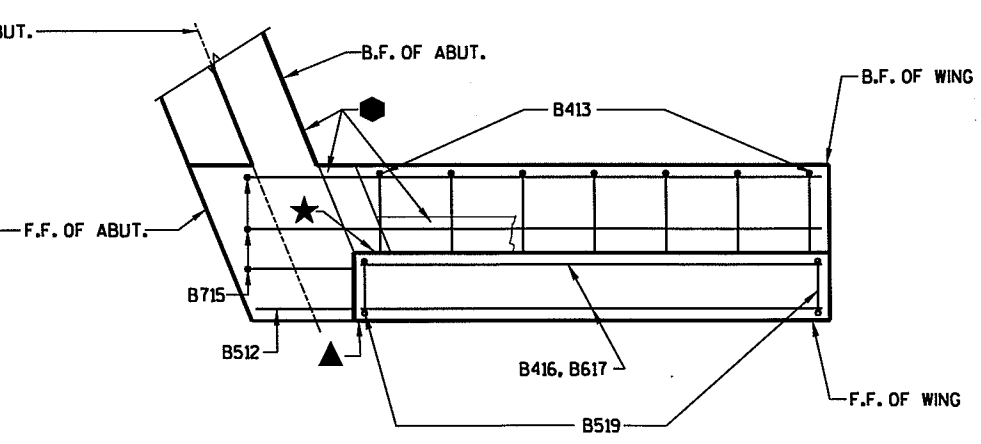
COATED 625 LBS.
UNCOATED 4220 LBS.

MARK	NO. REQ'D	LENGTH	BENT	COATED	LOCATION
B401	9	28-0	X		AT BODY PILES - 1 PER PILE 5 SPIRAL WRAPS
B402	18	2-4			" " " - 2 " " - VERT.
B603	24	32-6			BODY - F.F., TOP & BOTTOM - HORIZ.
B404	70	15-6	X		" - STIRRUPS - VERT.
B805	16	10-0			" - B.F. @ WINGS - HORIZ.
B606	16	25-8			" " " CENTER - "
B407	6	20-0			" - TOP - "
B408	4	28-10			" " @ SEMI-EXP. BACKWALL - "
B409	26	5-4	X		" " " CENTER - VERT.
B410	38	4-6	X		" " @ SEMI-EXP. BACKWALL - "
B511	6	12-8			WING 3 - BASE - F.F. - HORIZ.
B512	6	11-10			" 4 " " - "
B413	14	17-4	X		" " - STIRRUP - VERT.
B714	8	12-8	X		" 3 " - B.F. & CENTER - HORIZ.
B715	8	12-0	X		" 4 " " " " - "
B416	12	9-8		C	" - TOP - F.F. & B.F. - "
B617	4	9-8		C	" " " " " - "
B418	34	5-0		C	" " " " " - VERT.
B519	30	12-0	X	C	" " - PARAPET STIRRUP - "

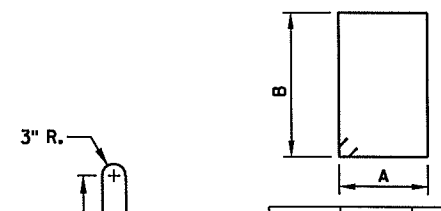
EPOXY COAT BARS AS NOTED IN BILL OF BARS.
DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.



PLAN - WING 3



PLAN - WING 4



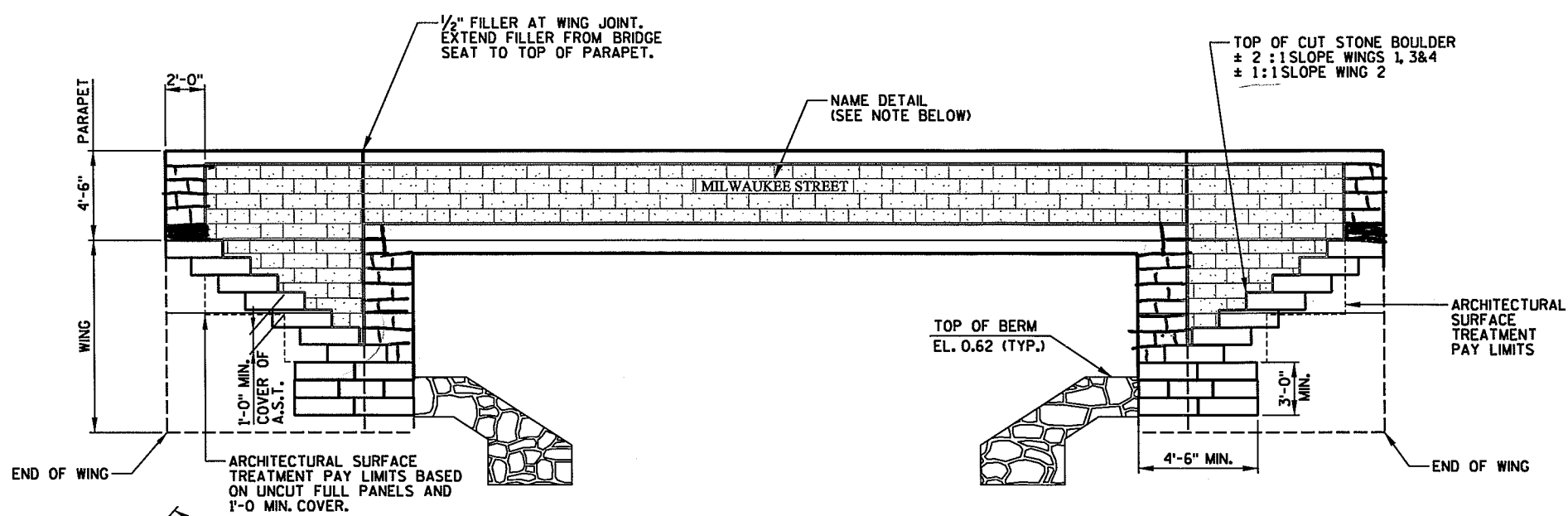
MARK	A	B
B404	2'-2"	5'-4"
B413	2'-10"	5'-7"

MARK	C	D
B409	2'-4"	1'-7"
B410	1'-0"	1'-10"

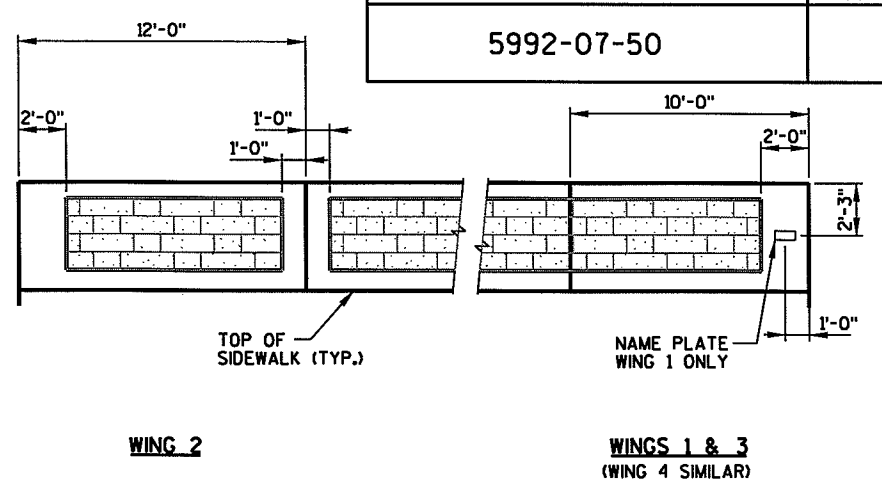
SEE SHEET 7 LEGEND FOR DESCRIPTION OF

■ ▲ ● ★

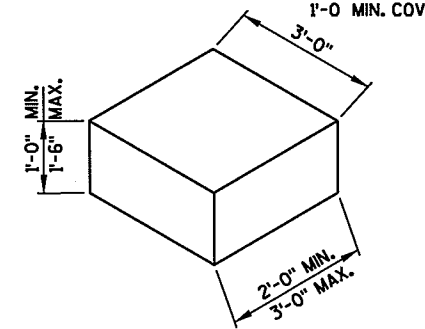
No.	Date	Revision	By
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-13-577			
Const. Spec. WI "03"	Drawn By RLR	Plans Checked	
EAST ABUTMENT DETAILS			SHEET 8 OF 11



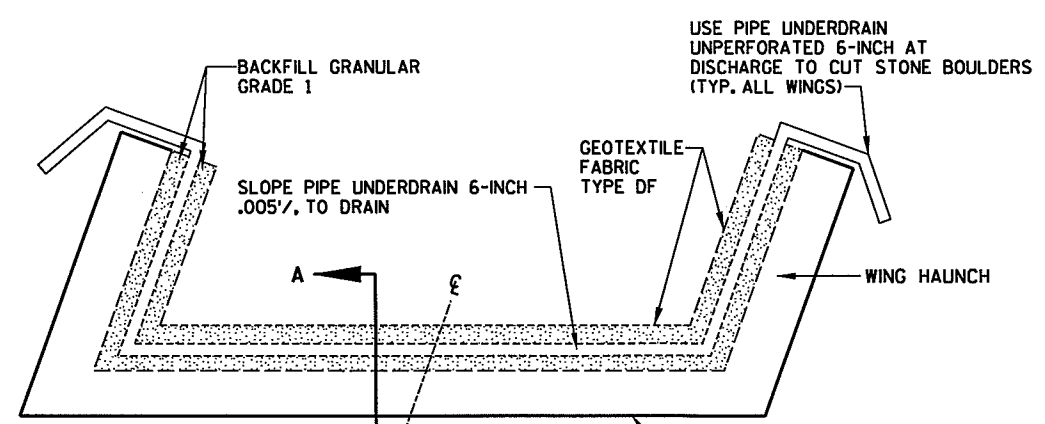
ELEVATION OF BRIDGE
ARCHITECTURAL SURFACE TREATMENT PAY LIMITS



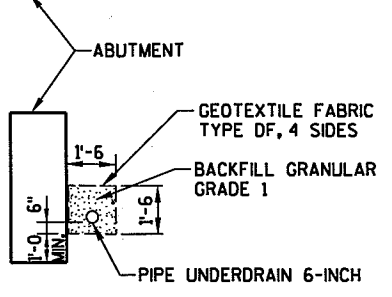
ELEVATION OF PARAPET
SHOWING INSIDE FACE OF PARAPET



CUT STONE BOULDER DETAIL



PLAN VIEW

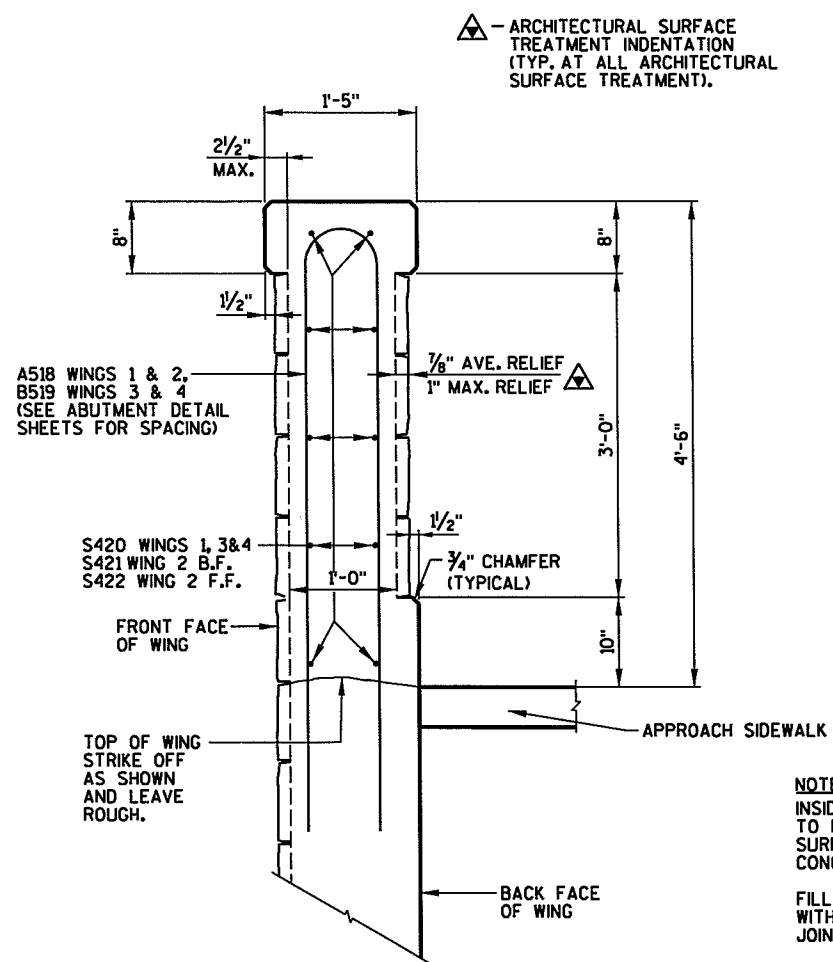


SECTION A-A

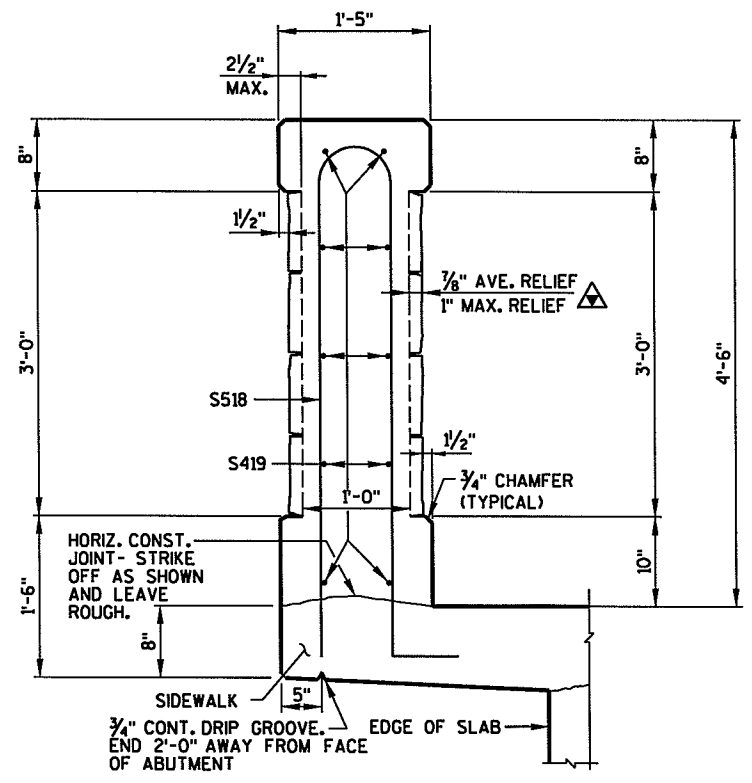
NOTE:
DISCHARGE SHALL HAVE RODENT PROTECTION PROVIDED PER SDD REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN.

RODENT PROTECTION AND BACKFILL GRANULAR GRADE 1 ARE INCLUDED IN THE BID ITEM "PIPE UNDERDRAIN 6-INCH".

DETAIL FOR PIPE UNDERDRAIN AT ABUTMENTS



SECTION THRU PARAPET ON WINGS



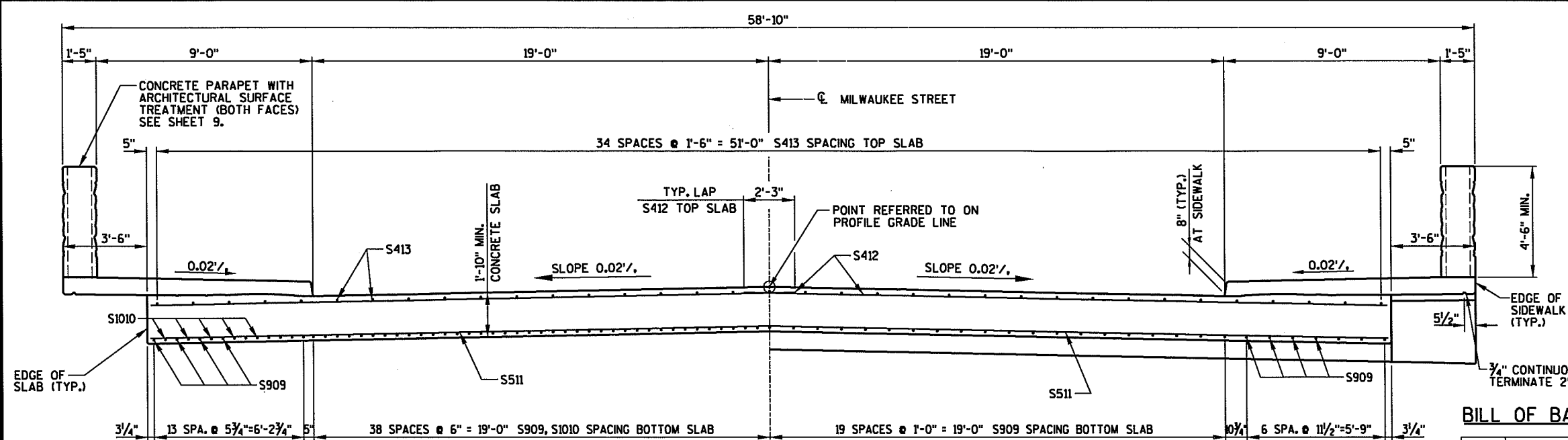
SECTION THRU PARAPET ON BRIDGE

NOTE:
INSIDE AND OUTSIDE FACES OF PARAPETS TO RECEIVE "ARCHITECTURAL SURFACE TREATMENT" AND "STAINING CONCRETE" AS SHOWN.

FILL ALL EXPOSED SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT FILLER.

LETTER STYLE FOR "NAME DETAIL" SHALL BE "GARAMON BOLD", RECESSED 3/4" INCH, 8 INCHES HIGH, AND 5 INCHES WIDE. NAME TO BE PLACED AT THE CENTER OF THE BRIDGE ON THE OUTSIDE FACE OF EACH PARAPET. (INCLUDED IN BID ITEM "ARCHITECTURAL SURFACE TREATMENT")

No.	Date	Revision	By
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-13-577			
Const. Spec. WI "03"	Drawn By RLR	Plans Checked	
ARCHITECTURAL SURFACE DETAILS & PIPE UNDERDRAIN			SHEET 9 OF 11



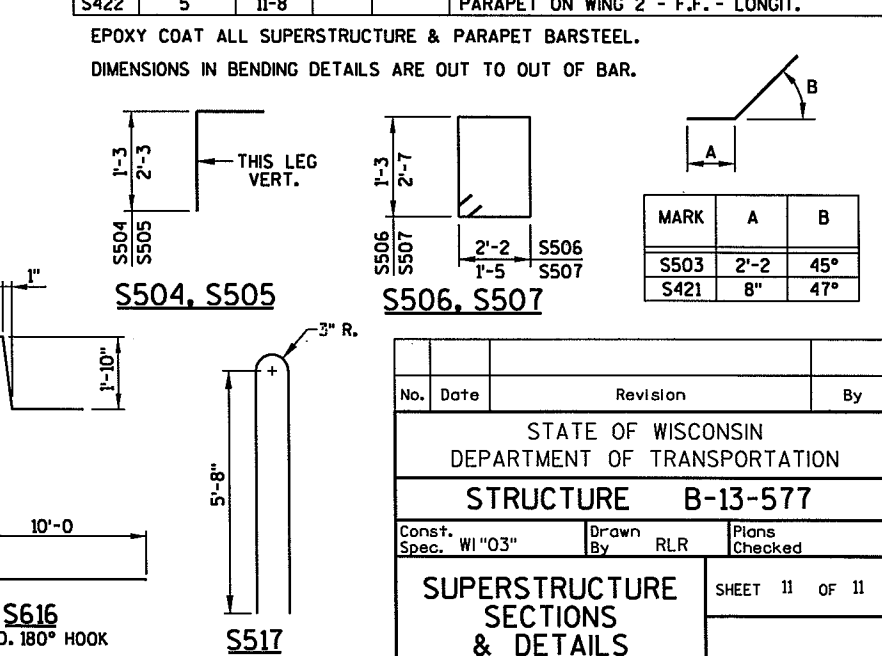
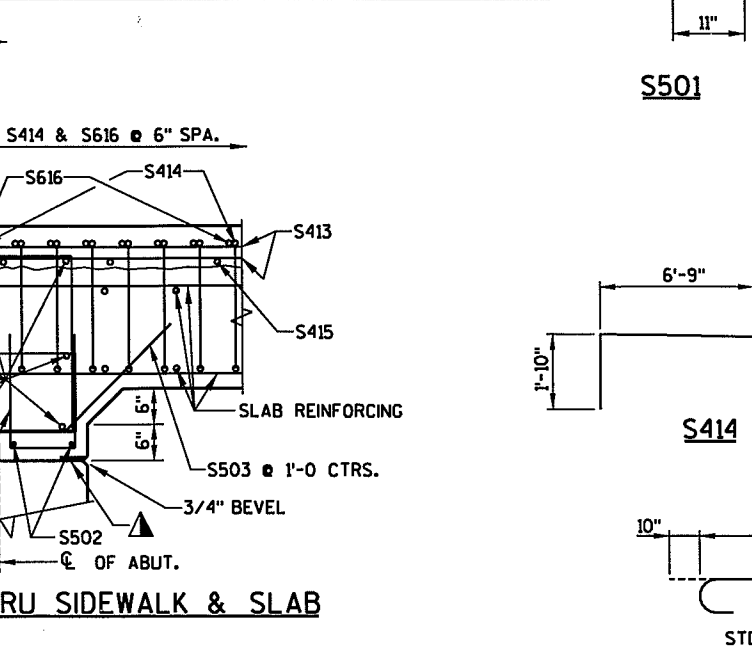
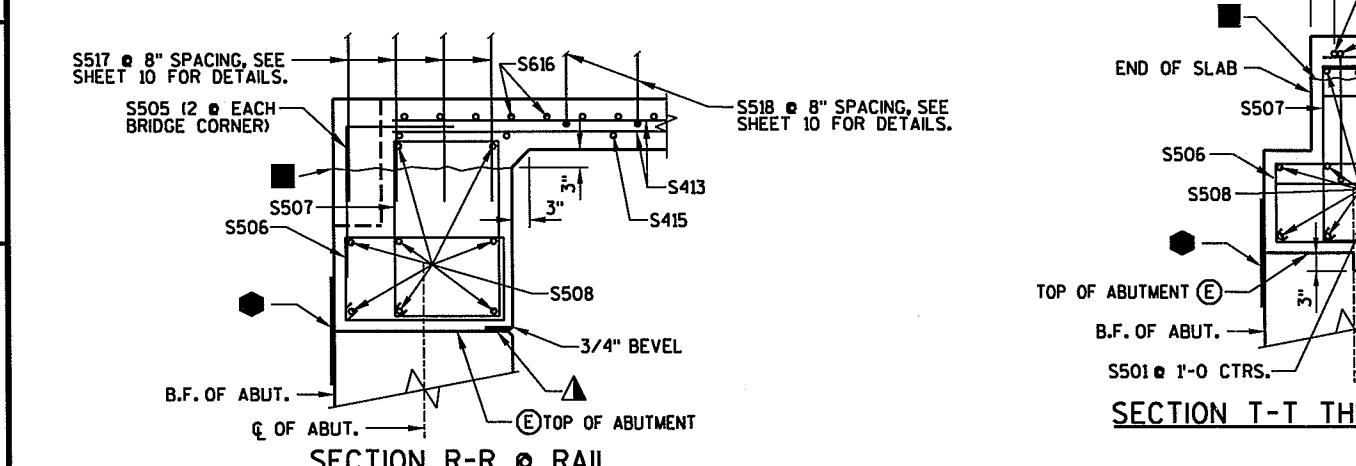
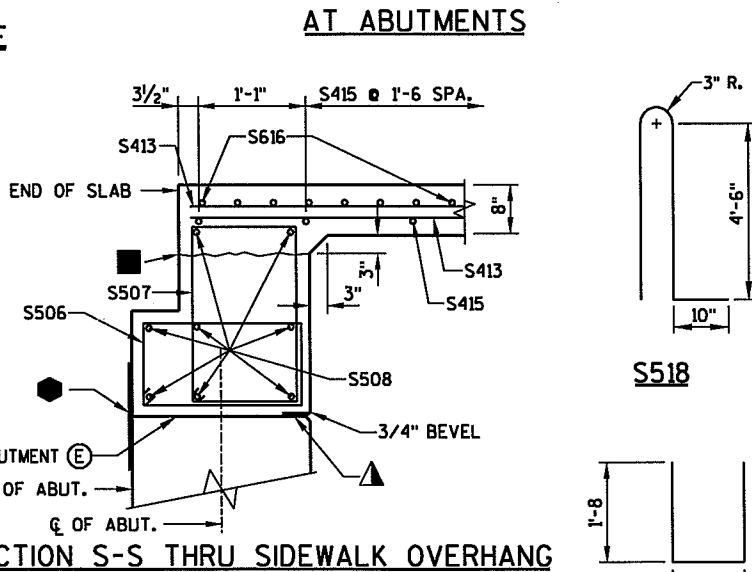
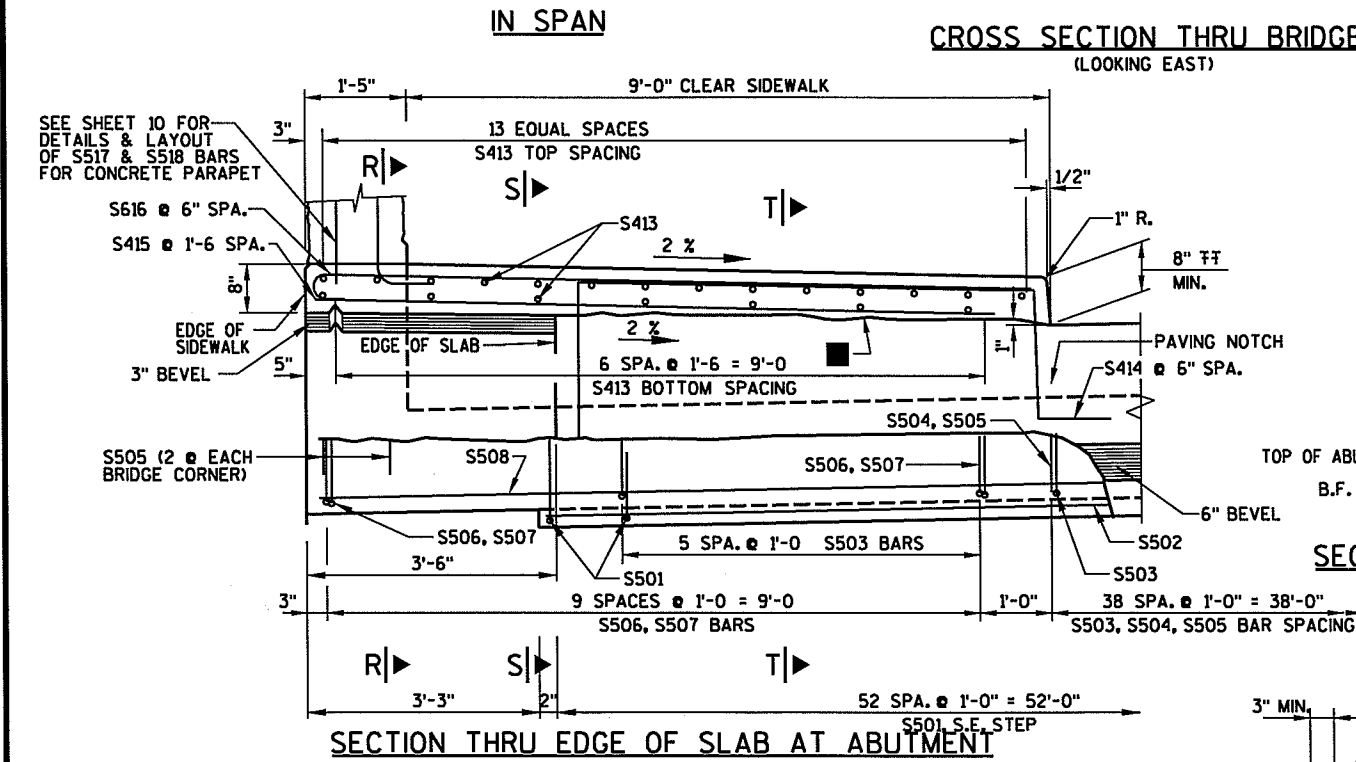
LEGEND

- - 18" RUBBERIZED MEMBRANE WATERPROOFING.
- - CONSTRUCTION JOINT STRIKE OFF AS SHOWN AND LEAVE ROUGH.
- ▲ - 4" x 3/4" FILLER, EXTEND FULL LENGTH OF ABUTMENT.
- ⓔ - SEMI-EXPANSION BEARING WITH SEAT STEP. SEE ABUTMENT PLAN SHEETS 4 & 7 FOR DETAILS & LAYOUT.
- FF - TOP OF SIDEWALK AT GUTTER LINE SHALL BE 8" THICK MINIMUM. SMOOTH SIDEWALK GRADE TO ELIMINATE MINOR IRREGULARITIES.

BILL OF BARS (COATED) 31,020 LBS.

MARK	NUMBER REQUIRED	LENGTH	BENT	BAR SERIES	LOCATION
S501	106	4-2	X		DIAPHRAGM @ ABUTS. - S.E. POCKET - VERT.
S502	4	55-4			DIAPHRAGM @ ABUTS. - S.E. POCKET - LONGIT.
S503	102	4-2	X		DIAPHRAGM @ ABUTS. - LONGIT.
S504	78	3-4	X		DIAPHRAGM @ ABUTS. - VERT.
S505	86	3-8	X		DIAPHRAGM @ ABUTS. - VERT.
S506	40	7-6	X		DIAPHRAGM @ ABUT. ENDS. - VERT.
S507	40	8-8	X		DIAPHRAGM @ ABUT. ENDS. - VERT.
S508	32	32-6			DIAPHRAGM @ ABUTS. - TRANS.
S909	53	41-4			SLAB BOTTOM - LONGIT.
S1010	52	33-0			SLAB BOTTOM - LONGIT.
S511	46	54-8			SLAB BOTTOM - TRANS.
S412	82	28-6			SLAB TOP - TRANS.
S413	77	39-10			SLAB TOP & SIDEWALK - LONGIT.
S414	160	11-8	X		SLAB & INTO SIDEWALK - TRANS.
S415	56	10-0			SIDEWALK BOTTOM - TRANS.
S616	160	10-10	X		SIDEWALK TOP - TRANS.
S517	16	12-0	X		PARAPET STIRRUP OVER ABUT. - VERT.
S518	110	10-6	X		PARAPET STIRRUP IN SPAN - VERT.
S419	20	41-4			PARAPET ON SLAB - LONGIT.
S420	30	9-8			PARAPET ON WINGS 1, 3 & 4 - LONGIT.
S421	5	13-0	X		PARAPET ON WING 2 - B.F. - LONGIT.
S422	5	11-8			PARAPET ON WING 2 - F.F. - LONGIT.

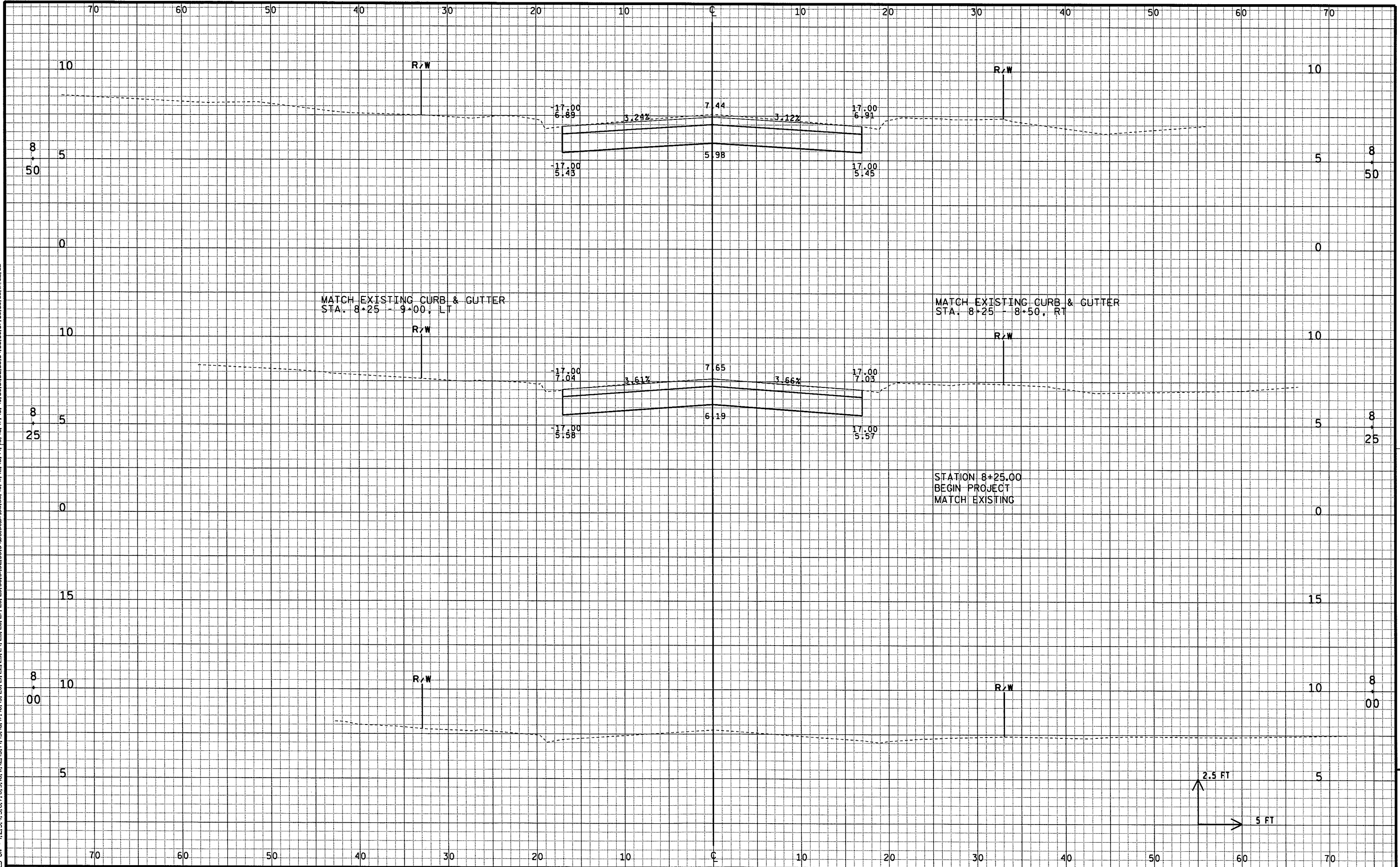
EPOXY COAT ALL SUPERSTRUCTURE & PARAPET BARSTEEL.
DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.



MARK	A	B
S503	2'-2	45°
S421	8"	47°

No.	Date	Revision	By
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-13-577			
Const. Spec. WI "03"	Drawn By RLR	Plans Checked	
SUPERSTRUCTURE SECTIONS & DETAILS			SHEET 11 OF 11

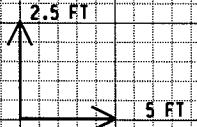
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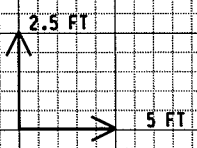
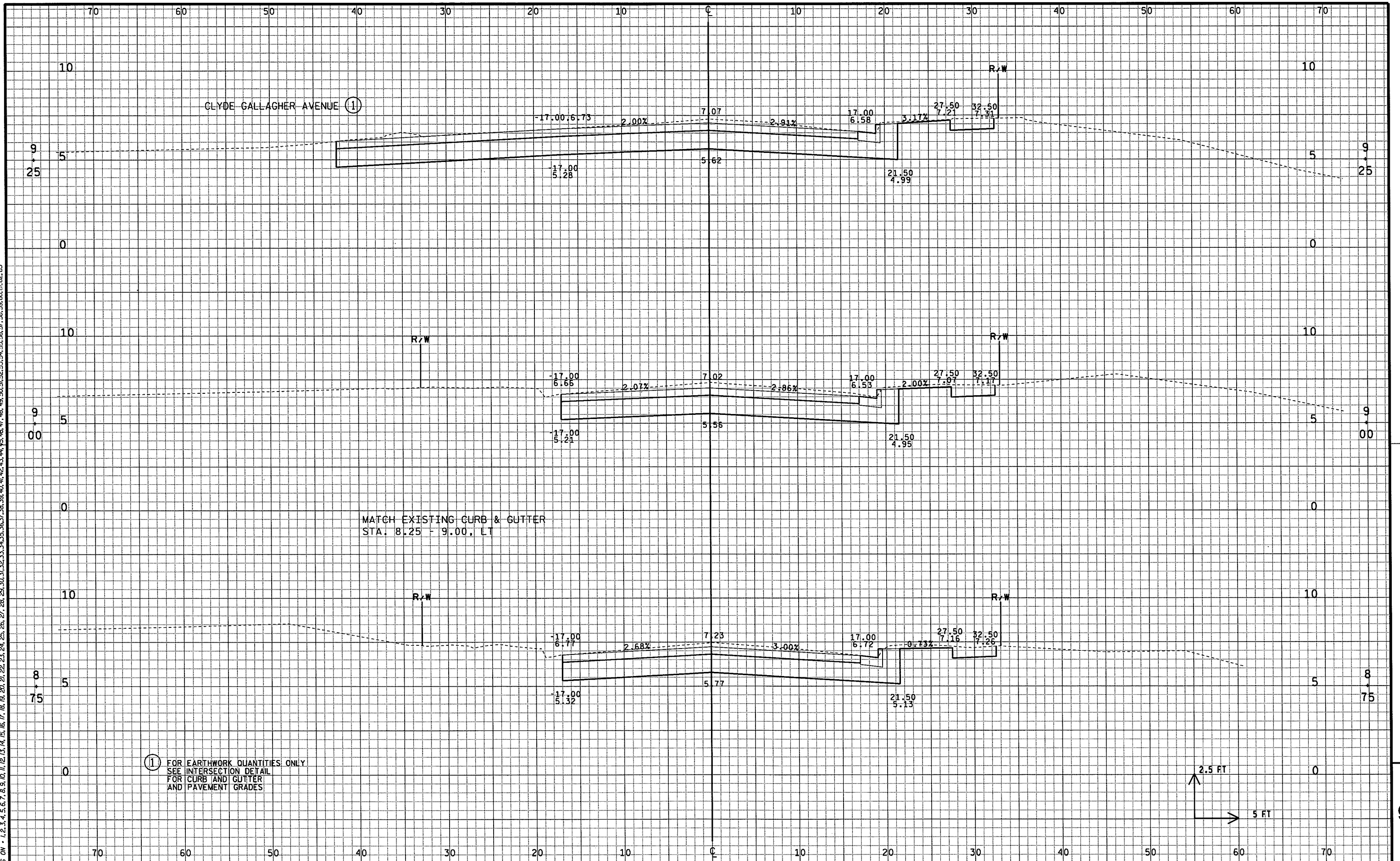
MATCH EXISTING CURB & GUTTER
STA. 8+25 - 9+00, LT

MATCH EXISTING CURB & GUTTER
STA. 8+25 - 8+50, RT

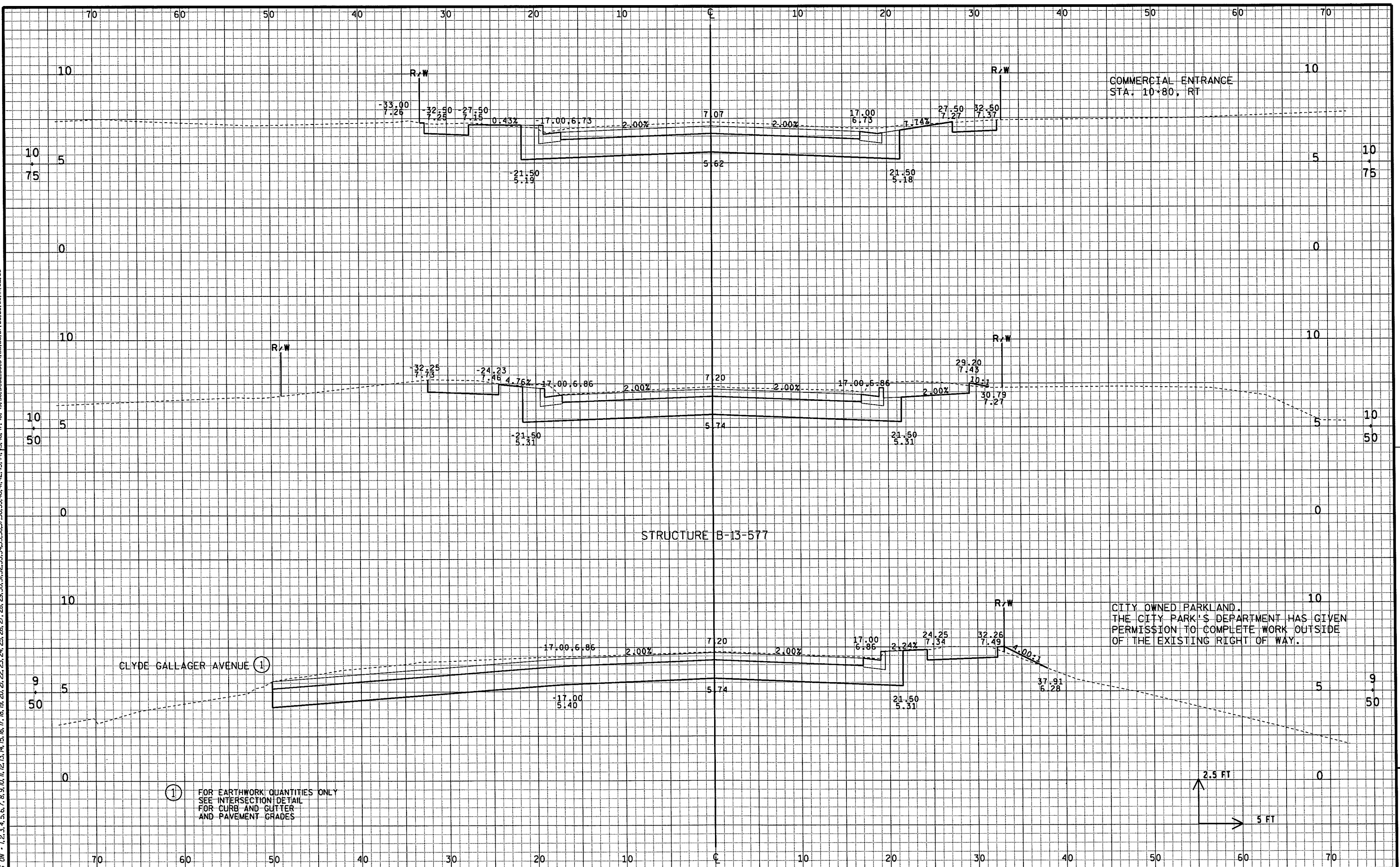
STATION 8+25.00
BEGIN PROJECT
MATCH EXISTING



LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

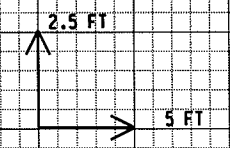


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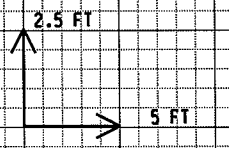
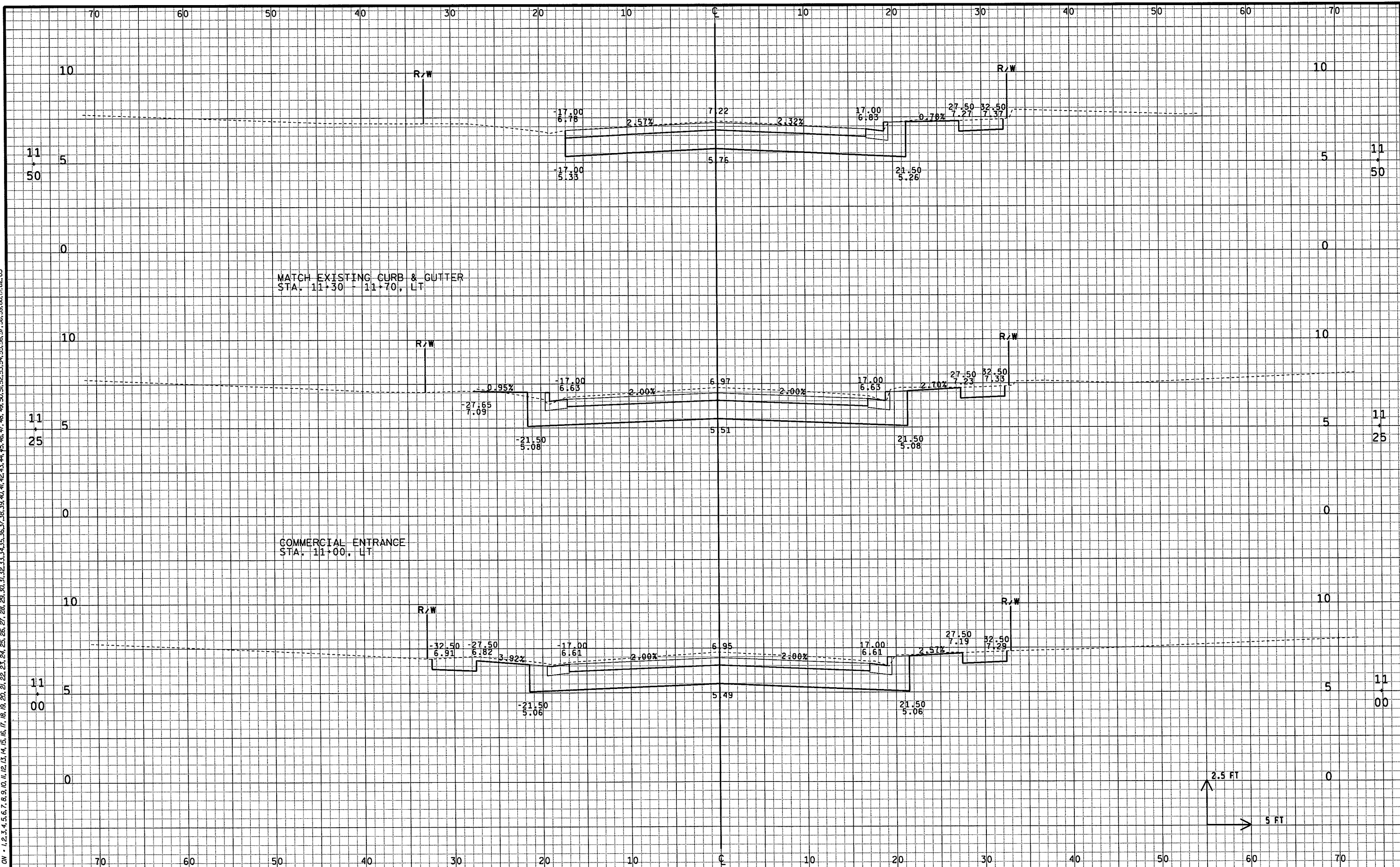


① FOR EARTHWORK QUANTITIES ONLY
SEE INTERSECTION DETAIL
FOR CURB AND GUTTER
AND PAVEMENT GRADES

CITY OWNED PARKLAND.
THE CITY PARK'S DEPARTMENT HAS GIVEN
PERMISSION TO COMPLETE WORK OUTSIDE
OF THE EXISTING RIGHT OF WAY.

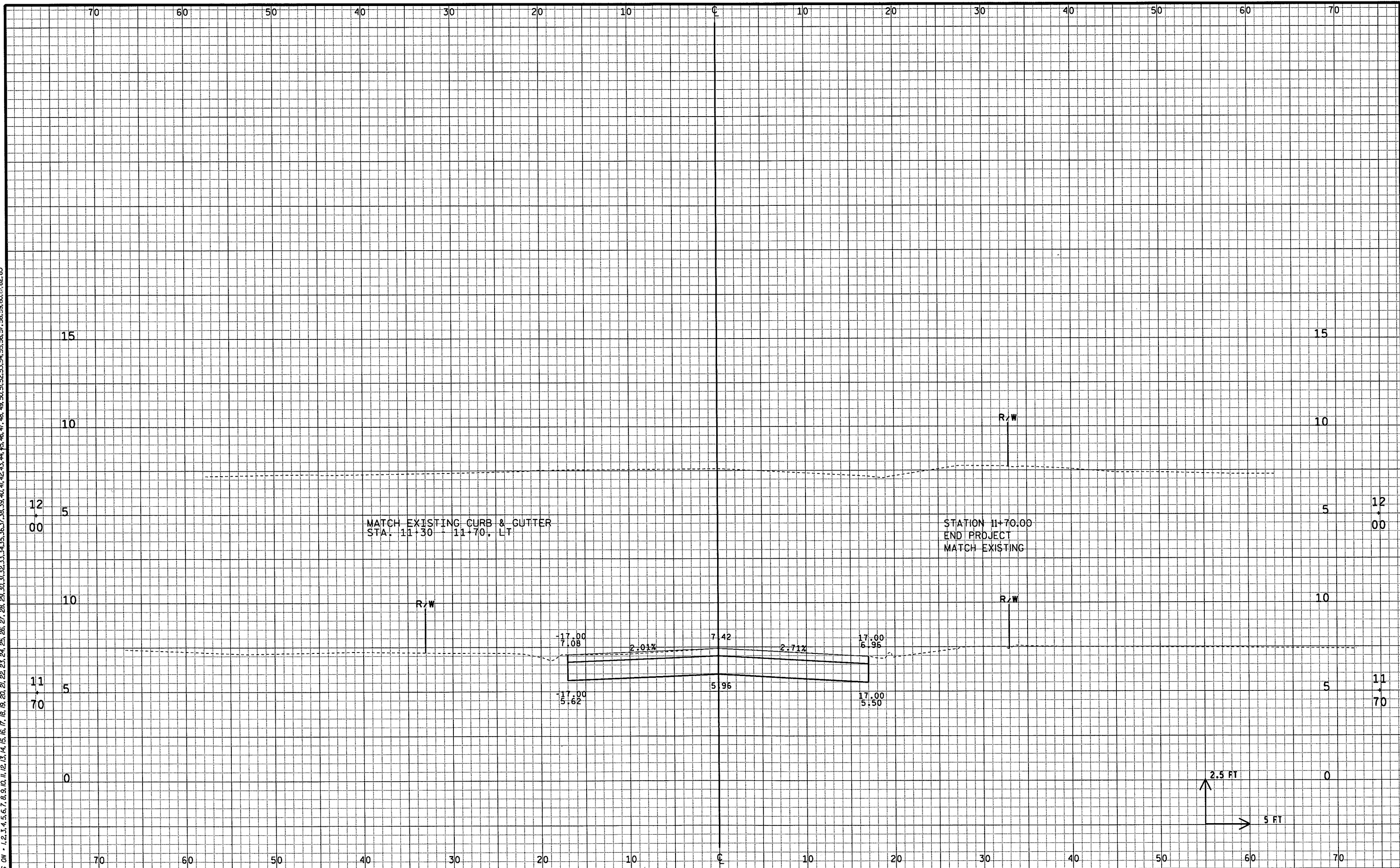


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LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63



STATE PROJECT NUMBER:5992-07-50

HWY: MILWAUKEE STREET

COUNTY:

DANE

CROSS SECTIONS:

SHEET NO:

E

FILE NAME : \$\$....designfile....\$\$

PLOT DATE : \$\$...plottingdate...\$\$

ORG DATE :

PLOT NAME :

Originator : Dist

PLOT SCALE : \$\$.....plotscale.....\$\$ WISDOT/CADD SHEET 21