

INDEX OF DRAWINGS

UTILITY REFERENCE TABLE

GENERAL NOTES

DRAWING NAME	SHEET NUMBER	SHEET TITLE
G-1	1	TITLE SHEET
G-2	2	INDEX OF DRAWINGS AND GENERAL NOTES
G-3 TO G-4	3 TO 4	SUMMARY OF QUANTITIES
G-5 TO G-7	5 TO 7	BIKE TRAIL AND FLOODWALL TYPICAL SECTIONS
G-8	8	LEVEE TYPICAL SECTIONS
G-9	9	CAMP GROUND ROAD AND BIKE TRAIL TYPICAL SECTIONS
G-10	10	BIKE TRAIL, MINER STREET AND CAMP GROUND ROAD ALIGNMENT
G-11	11	BIKE TRAIL ALIGNMENT
G-12	12	FLOODWALL AND LEVEE ALIGNMENT
G-13	13	LEVEE ALIGNMENT
G-14	14	SURVEY TIES, CONTROL POINTS AND BENCHMARKS
G-15 TO G-17	15 TO 17	GENERAL PLAN AND EASEMENT
C-1 TO C-7	18 TO 24	BIKE TRAIL AND FLOODWALL PLAN AND PROFILE
C-8 TO C-11	25 TO 28	LEVEE PLAN AND PROFILE
C-12	29	CAMPGROUND ROAD PLAN AND PROFILE
C-13	30	MINER STREET ROADWAY PLAN
C-14 TO C-16	31 TO 33	DRAINAGE PLAN AND PROFILE
C-17	34	MINER STREET PUMP STATION PLAN DETAIL
C-18	35	WHEELS PUMP STATION PLAN AND PROFILE
C-19	36	RAND ROAD FLOOD GATE LOCATION PLAN
C-20	37	BALLARD ROAD FLOOD GATE LOCATION PLAN
C-21 TO C-24	38 TO 41	MINER STREET TRAFFIC CONTROL
C-25 TO C-29	42 TO 46	EROSION CONTROL AND LANDSCAPE PLANS
C-30 TO C-61	47 TO 78	CROSS SECTIONS
C-82 TO C-65	79 TO 82	SOIL BORING LOCATION PLAN
C-86 TO C-70	83 TO 87	SOIL BORINGS LOGS
C-UTIL	88	PROPOSED UTILITY RE-ALIGNMENT
M-1	89	WHEELS PUMP STATION - PLANS, SECTIONS & DETAILS
M-2	90	MINER STREET WATER MAIN RELOCATION - PLANS & SECTIONS
M-3	91	MINER STREET PUMP STATION - PLANS AND SECTIONS
SGND-1	92	STRUCTURAL GENERAL NOTES
SGND-2 AND SGND-3	93 TO 94	STRUCTURAL STANDARD DETAILS
SCR-1	95	CAMPGROUND ROAD FLOODWALL GENERAL PLAN AND ELEVATION
SCR-2	96	CAMPGROUND ROAD FLOODWALL SECTIONS AND DETAILS
SMU-1	97	MINER ST. CULVERT GENERAL PLAN AND ELEVATION
SMU-2	98	MINER ST. CULVERT CONSTRUCTION STAGING
SMU-3	99	MINER ST. CULVERT EXISTING CONDITIONS AND DEMOLITION - SOUTHEAST WINGWALL
SMU-4 TO SMU-5	100 TO 101	MINER ST. CULVERT SECTIONS AND DETAILS
SMU-6	102	MINER ST. CULVERT WINGWALL ELEVATIONS AND DETAILS
SMU-7	103	MINER ST. CULVERT BILL OF MATERIALS AND MISCELLANEOUS DETAILS
SMU-8	104	MINER ST. CULVERT APPROACH PAVEMENT PLAN & DETAILS
SMU-9 TO SMU-10	105 TO 106	MINER ST. CULVERT APPROACH PAVEMENT DETAILS
SFW-1 TO SFW-8	107 TO 114	FLOODWALL PLAN & ELEVATION
SFW-9 TO SFW-12	115 TO 118	FLOODWALL SECTIONS, ELEVATIONS AND DETAILS
SFW-13	119	REMOVABLE HANDRAIL, ELEVATIONS AND DETAILS
SRC-1	120	RAND ROAD FLOOD GATE CLOSURE STRUCTURE GENERAL PLAN
SRC-2	121	RAND ROAD FLOOD GATE CLOSURE STRUCTURE WEST GATE FOUNDATION PLANS, SECTION AND ELEVATIONS
SRC-3	122	RAND ROAD FLOOD GATE CLOSURE STRUCTURE EAST GATE FOUNDATION PLANS, SECTION AND ELEVATIONS
SRC-4	123	RAND ROAD FLOOD GATE CLOSURE STRUCTURE FOUNDATIONS, BILL OF MATERIALS
SRC-5	124	RAND ROAD FLOOD GATE CLOSURE STRUCTURE ELEVATION AND SECTIONS
SRC-6 TO SRC-7	125 TO 126	RAND ROAD FLOOD GATE CLOSURE STRUCTURE PLAN, ELEVATION AND SECTION
SBC-1	127	BALLARD ROAD FLOOD GATE CLOSURE STRUCTURE GENERAL PLAN
SBC-2	128	BALLARD ROAD FLOOD GATE CLOSURE STRUCTURE FOUNDATIONS, PLANS, ELEVATIONS AND DETAILS
SBC-3	129	BALLARD ROAD FLOOD GATE CLOSURE STRUCTURE SOIL BORING LOGS
SBC-4	130	BALLARD ROAD FLOOD GATE CLOSURE STRUCTURE ELEVATION AND SECTION
SBC-5 TO SBC-6	131 TO 132	BALLARD ROAD FLOOD GATE CLOSURE STRUCTURE PLAN, ELEVATION AND SECTION
SRBC-1 TO SRBC-5	133 TO 137	FLOOD GATE CLOSURE STRUCTURES MISCELLANEOUS SECTIONS AND DETAILS
SMWRD-1	138	INTERCEPTOR NO. 9 STRUCTURE DEMOLITION - PLANS AND SECTIONS
SMWRD-2	139	INTERCEPTOR NO. 9 STRUCTURE MODIFICATIONS - PLANS AND SECTIONS
SMWRD-3	140	INTERCEPTOR NO. 9 STRUCTURE MODIFICATIONS - PLANS, SECTIONS AND DETAILS
SWPS-1	141	WHEELS PUMP STATION STRUCTURE PLANS AND SECTION
SGS-1	142	MINER STREET GATE STRUCTURE PLANS AND SECTION
SBB-1	143	BIG BEND LAKE HEADWALL PLAN, SECTION, ELEVATION AND DETAILS
SMISC-1	144	CONCRETE HEADWALLS, PLAN, SECTION, ELEVATION AND DETAILS
SMISC-2	145	MINER ST. RETAINING WALL PARAPET DEMOLITION
SBM-1	146	BUILDING DEMOLITION AND MODIFICATIONS GENERAL PLAN
SBM-2	147	1844 E. MINER ST. PARTIAL BUILDING DEMOLITION AND MODIFICATIONS, PLAN AND SECTION
SBM-3	148	1842 E. MINER ST. PARTIAL BUILDING DEMOLITION, PLANS AND SECTION
SBM-4	149	1842 E. MINER ST. PARTIAL BUILDING DEMOLITION, ELEVATIONS
SBM-5	150	1842 E. MINER ST. BUILDING MODIFICATIONS, PLANS AND SECTION
SBM-6	151	1842 E. MINER ST. BUILDING MODIFICATIONS, ELEVATIONS, SECTIONS AND DETAILS
SBM-7	152	1842 E. MINER ST. BUILDING MODIFICATIONS, SECTIONS AND DETAILS
SST-1	153	MINER ST. STAIR PLAN, SECTIONS AND DETAILS
SST-2	154	MINER ST. STAIR SECTIONS AND DETAILS
E-1	155	LEGEND, CABLE GROUPINGS AND GENERAL NOTES
E-2 TO E-13	156 TO 167	BIKE TRAIL LIGHTING

J.U.L.I.E.	UTILITY NAME	CONTACT
ELECTRICITY	CALL 48 HOURS PRIOR TO CONSTRUCTION	(800) 892-0123
	COMMONWEALTH EDISON TERRI BLECK CUSTOMER FACILITIES REPRESENTATIVE 1500 FRANKLIN BLVD LIBERTYVILLE, IL 60048	(847) 816-5239
SEWER	METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO JOHN C. FARNAN 111 EAST ERIE STREET CHICAGO, IL 60611	(312) 751-5600
	CITY OF DES PLAINES TIM WATKINS 1420 MINER STREET DES PLAINES, ILLINOIS 60016	(847) 391-5468
WATER	CITY OF DES PLAINES MIKE GRACZYK 1420 MINER STREET DES PLAINES, ILLINOIS 60016	(847) 391-5469
	SBC AMERITECH 2004 MINER STREET, FLOOR #1 DES PLAINES, IL 60016	(847) 759-5507
COMMUNICATIONS	JON DOLES (UNDERGROUND)	(847) 759-5507
	DIERDRE SIMO-KEHL (AERIAL)	(847) 759-5503
	MCJ WORLDWIDE JIM TODD 7719 W. 60TH PLACE SUMMIT, IL 60501	(708) 458-6410
	LEVEL 3 COMMUNICATIONS MATTHEW WILLIAMS GLOBAL NETWORK SERVICES 1025 ELDORADO BLVD, 33A-523 BROOMFIELD CO 80021	(720) 888-3813
GAS	DAN APPEL EN ENGINEERING 7135 JANES AVENUE WOODRIDGE, IL 60517	(630) 353-4013
	ISHTA FIBER OPTICS PATRICIA MATHEZ 2700 OGDEN AVENUE DOWNERS GROVE, IL 60515	(630) 739-0546
CABLE TELEVISION	COMCAST CORNELIO DELACERDA 1575 ROLLING ROAD ROLLING MEADOWS, IL 60008	(847) 725-6747
	BRIAN HURD 1674 FRONTENAC ROAD NAPERVILLE, IL 60563	(630) 536-3127
RAILROAD	UNION PACIFIC RAILROAD TIM NEUMAIER (CONSTRUCTION COORDINATOR) 1144 ROLLING LANE LAKE GENEVA, WI 53147	(815) 341-9088

STATE STANDARDS

280001-02	TEMPORARY EROSION CONTROL SYSTEMS
420401-05	BRIDGE APPROACH PAVEMENT
424001-03	CURB RAMPS FOR SIDEWALKS
542301	PRECAST REINFORCED CONCRETE FLARED END SECTION
542311	GRATING FOR CONCRETE FLARED END SECTION (FOR 24" THRU 54" PIPE)
602001	CATCH BASIN TYPE A
602011	CATCH BASIN TYPE C
602301	INLET TYPE A
602401	MANHOLE TYPE A
602408-01	MANHOLE TYPE A 72" DIAMETER
602801	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701	CAST IRON STEPS
604001-02	FRAME AND LIDS TYPE 1
604306-01	GRATE TYPE B
606001-02	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
630001-05	STEEL PLATE BEAM GUARDRAIL
684001-01	CHAIN LINK FENCE
702001-05	TRAFFIC CONTROL DEVICES
704001-02	TEMPORARY CONCRETE BARRIER
720001	SIGN PANEL MOUNTING DETAILS
720006	SIGN PANEL ERECTION DETAILS
720011	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
729001	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
814001	CONCRETE HANDHOLES

All elevations refer to 1929 N.A.V.D. (North American Vertical Datum).

The Contractor shall furnish, erect, and when directed by the Engineer, completely remove two construction signs. The exact location of the signs shall be determined by the Engineer in the field.

All lateral drainage that exists prior to construction shall be restored as shown on the plans and as directed by the Engineer. Unless otherwise specified all costs of restoration shall be considered incidental to the Contract and no additional compensation will be allowed.

All excess excavation and unsuitable materials shall be disposed of at locations provided by the Contractor at his expense and at locations inspected and approved by the Engineer.

All construction operations shall be contained within the easement area or work limits as indicated on the plans.

Class SI Concrete shall be used throughout. All exposed edges of concrete shall be beveled 3/4".

Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42, or M-53 Grade 60.

All reinforcement bars shall be marked by bar designation and name of structure.

All structural steel shall be galvanized in accordance with AASHTO M-111 and ASTM A-385.

Plan dimensions and details relative to the existing structure have been taken from existing plans and/or past surveys and reports and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work; however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

The Contractor is reminded to protect and restore at his expense, in accordance with Article 107.20 of the Standard Specifications, any private or public property, including access roads, which may be damaged or destroyed due to construction operations.

All utilities affected by the improvement shall be adjusted by others except as noted in the plans. Prior to beginning work in the vicinity of the utilities, the Contractor shall contact the respective owners as shown on this sheet, and he shall schedule his work so as not to interfere with these adjustments.

Unless otherwise specified, all utilities shall be protected and not disturbed. All costs of protection shall be considered incidental to the contract, and no additional compensation will be allowed.

All open excavations are to be surrounded with a four feet construction fence during non-working hours. The fence material shall be approved by the Engineer. The cost shall be incidental to the contract.

All material excavated, except rock, from the bottom of the existing channel must be deposited in a self-contained area in compliance with all State statutes, regulations, and permit requirements with no discharge to public waters unless a permit has been issued by the Illinois E.P.A.

The location, maintenance, removal, and restoration to original condition of all haul roads shall be as approved by the Engineer and all cost shall be incidental to the Contract.

The Contractor shall notify the City of Des Plaines and the Township concerning the closing of City streets and conform to all requirements so specified without additional cost to the State.

Elevation 0.0 NAVD (1929) = 0.3 USGS (1988)

The Contractor shall contact Mr. Dana Havranek from the Illinois Tollway permit section at (630)241-6800 extension 3941 prior to commencement of any work on Illinois Tollway right-of-way or facilities.

The Contractor shall coordinate construction activities with the Illinois Tollway Contractor that is awarded Contract RR-02-5116 which involves reconstruction of Ramp C (I-294 southbound entrance ramp from westbound Dempster St.). Contract RR-02-5116 is scheduled to begin in March 2007 with completion in November 2007.

LEGEND

Storm Sewer		Existing		Proposed
Sanitary Sewer				

EARTHWORK SUMMARY TABLE
(ALL UNITS IN CUBIC YARDS)

LOCATIONS	STRUCTURE EXCAVATION	EARTH EXCAVATION (INCLUDES TOP SOIL EXCAVATION)	EMBANKMENT (NOT PAID FOR)	BALANCE TOTAL EXCAVATION - (EMBANKMENT X 125%)	LEVEE EMBANKMENT (CLAY)
BIKE TRAIL AND CAMP GROUND ROAD (SOUTH OF MINER STREET)	15	989	300	629	0
BIKE TRAIL CULVERT	1,695	0	0	1,695	0
BIKE TRAIL AND FLOODWALL (MINER STREET TO END OF FLOOD WALL)	1,343	3,952	1,668	3,210	0
BIKE TRAIL EXTENSION TO RAND ROAD	0	96	654	-722	0
BIKE TRAIL AND WITTBOLD LEVEE (END OF FLOODWALL TO RAND ROAD)	0	2,906	289	2,545	8,308
RAND LEVEE (RAND ROAD TO TOLLWAY)	0	5,306	31	5,267	8,064
RAND ROAD AND BALLARD ROAD GATE STRUCTURES	168	0	130	6	0
TOTALS	3,221	13,249	3,072	12,630	16,372

Revised 2/24/06, TMM

FR-416

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES

CODE NO.	PAY ITEM	UNIT	QUANTITY				
			TOTAL	EC	I	C	DP
20100500	TREE REMOVAL, ACRES	ACRE	5.3	3.9	1.4		
20101100	TREE TRUNK PROTECTION	EACH	7	7			
20200100	EARTH EXCAVATION	CU YD	13,249	8,008	4,557	684	
20800150	TRENCH BACKFILL	CU YD	842	805	7	30	
21101825	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	25,400	23,160	1,840	600	
21301048	EXPLORATION TRENCH 48" DEPTH	FOOT	450	450			
25100630	EROSION CONTROL BLANKET	SQ YD	15,981	14,361	1,630		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1,000	1,000			
28000300	TEMPORARY DITCH CHECKS	EACH	6	6			
28000400	PERIMETER EROSION BARRIER	FOOT	3,999	3,278	721		
28000500	INLET AND PIPE PROTECTION	EACH	9	6	2	1	
28100705	STONE DUMPED RIPRAP, CLASS A3	SQ YD	3,200		3,200		
31101100	SUB-BASE GRANULAR MATERIAL, TYPE B	CU YD	450	450			
31101200	SUB-BASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	4,940		4,940		
31101400	SUB-BASE GRANULAR MATERIAL, TYPE B 6"	SQ YD	882			882	
42001400	BRIDGE APPROACH PAVEMENT (SPECIAL)	SQ YD	358	358			
42001420	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	SQ YD	61	61			
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	165	165			
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	6,765	6,765			
42400410	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH	SQ FT	150		150		
42400200	TEMPORARY SIDEWALK	SQ FT	410	410			
44000100	PAVEMENT REMOVAL	SQ YD	660			660	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	134	134			
44000600	SIDEWALK REMOVAL	SQ FT	3,880	3,880			
44000700	APPROACH SLAB REMOVAL	SQ YD	419	419			
44100100	PAVEMENT REPLACEMENT	SQ YD	735	735			
48100300	AGGREGATE SHOULDERS, TYPE A 4"	SQ YD	1,046	218	240	257	331
50100200	REMOVAL OF EXISTING STRUCTURES	L SUM	1	1			
50104400	CONCRETE HEADWALL REMOVAL	EACH	4	4			
50200100	STRUCTURE EXCAVATION	CU YD	3,221	3,125			96
50300225	CONCRETE STRUCTURES	CU YD	1,754	1,672	12		70
50300255	CONCRETE SUPERSTRUCTURE	CU YD	8	8			
50300300	PROTECTIVE COAT	SQ YD	10,696	5,546	4,943		207
50800505	STUD SHEAR CONNECTORS	EACH	17,283	16,427	116		740
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	168,983	164,414	729		3,840
51204900	STEEL SHEET PILING	SQ FT	90,473	70,418	20,055		
51205200	TEMPORARY SHEET PILING	SQ FT	2,030	2,030			
54003000	CONCRETE BOX CULVERTS	CU YD	147	147			
54213857	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	5	3	2		
54213860	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	2	2			
54215415	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 15"	EACH	2	2			
54215424	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 24"	EACH	1	1			

CODE NO.	PAY ITEM	UNIT	QUANTITY				
			TOTAL	EC	I	C	DP
54247100	GRATING FOR CONCRETE FLARED END SECTION 15"	EACH	1	1			
55019500	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 12	FOOT	71	17		54	
55019600	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 15	FOOT	8			8	
55021800	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 12	FOOT	1,010	864	46		
55021700	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 15	FOOT	70	70			
55021800	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 18	FOOT	42	42			
55022000	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 24	FOOT	131	131			
55022400	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 36	FOOT	118	118			
55037700	STORM SEWERS TO BE CLEANED 10"	FOOT	70	70			
55037800	STORM SEWERS TO BE CLEANED 12"	FOOT	38	38			
55038000	STORM SEWERS TO BE CLEANED 18"	FOOT	70	70			
55038200	STORM SEWERS TO BE CLEANED 24"	FOOT	66	66			
55100400	STORM SEWER REMOVAL 10"	FOOT	100	100			
55100500	STORM SEWER REMOVAL 12"	FOOT	100	100			
55101200	STORM SEWER REMOVAL 24"	FOOT	20	20			
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	119	119			
60200805	CATCH BASINS, TYPE A, 4-DIAMETER, TYPE B GRATE	EACH	1			1	
60206905	CATCH BASINS, TYPE C, TYPE 1 FRAME, OPEN LID	EACH	2	2			
60207905	CATCH BASINS, TYPE C, TYPE B GRATE	EACH	2		2		
60218400	MANHOLES, TYPE A, 4-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	5	5			
60221100	MANHOLES, TYPE A, 5-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	1	1		
60223800	MANHOLES, TYPE A, 6-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2			
60224085	MANHOLES, TYPE A, 6-DIAMETER, WITH SALVAGED FRAME AND LID	EACH	2	2			
60238400	INLETS, TYPE A, TYPE B GRATE (24" DEPTH)	EACH	3	3			
60500040	REMOVING MANHOLES	EACH	6	6			
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-8.12	FOOT	149	149			
60608300	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.12	FOOT	371	371			
63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	86			86	
63000130	STEEL PLATE BEAM GUARD RAIL, TYPE A (SPECIAL)	FOOT	200			200	
63200310	GUARDRAIL REMOVAL	FOOT	386	286		100	
66400305	CHAIN LINK FENCE, 6"	FOOT	118	118			
66410300	CHAIN LINK FENCE REMOVAL	FOOT	1,018	1,018			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	22	22			
67100100	MOBILIZATION	L SUM	1	1			
70101800	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	1			
70300510	PAVEMENT MARKING TAPE, TYPE II - LETTERS AND SYMBOLS	SQ FT	36	36			
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	14,000	14,000			
70300540	PAVEMENT MARKING TAPE, TYPE III 6"	FOOT	1,256	1,256			
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	5,230	5,230			
70400100	TEMPORARY CONCRETE BARRIER	FOOT	240	240			
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	480	480			
72000100	SIGN PANEL - TYPE 1	SQ FT	66		18		38

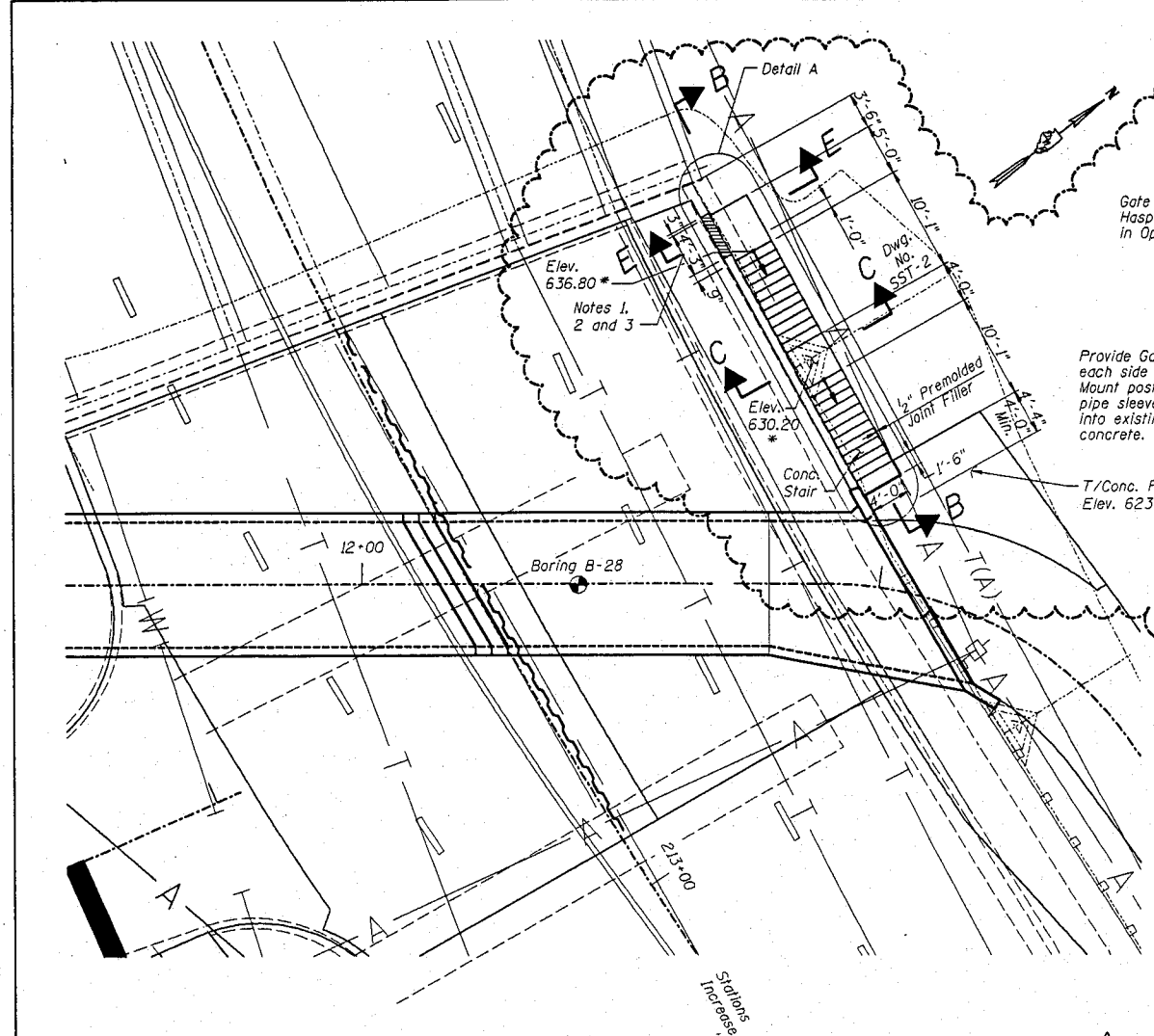
QUANTITY LEGEND

- TOTAL - TOTAL PROJECT QUANTITY
- EC - IDNR FLOOD CONTROL QUANTITY
- I - IDNR TRAILS QUANTITY
- C - CAMPGROUND ROAD QUANTITY
- DP - CITY OF DES PLAINES QUANTITY

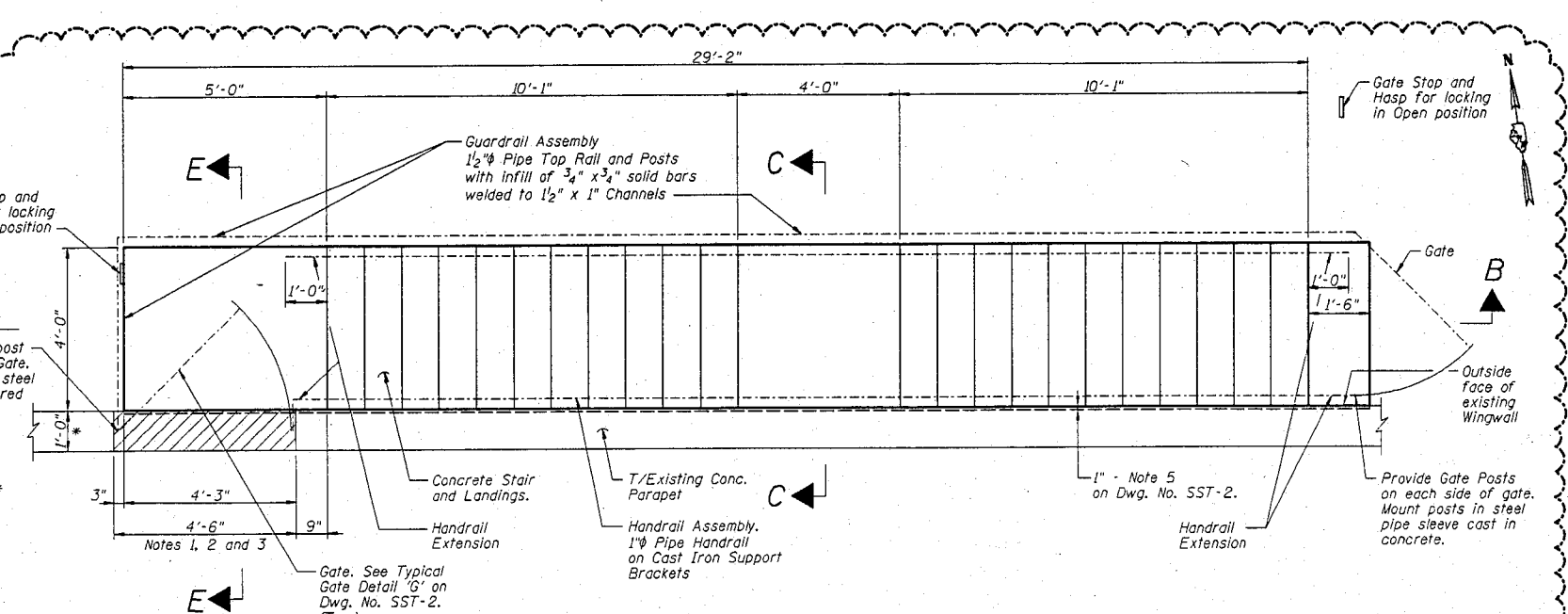
Revised 2/24/06, DRH

FR-416

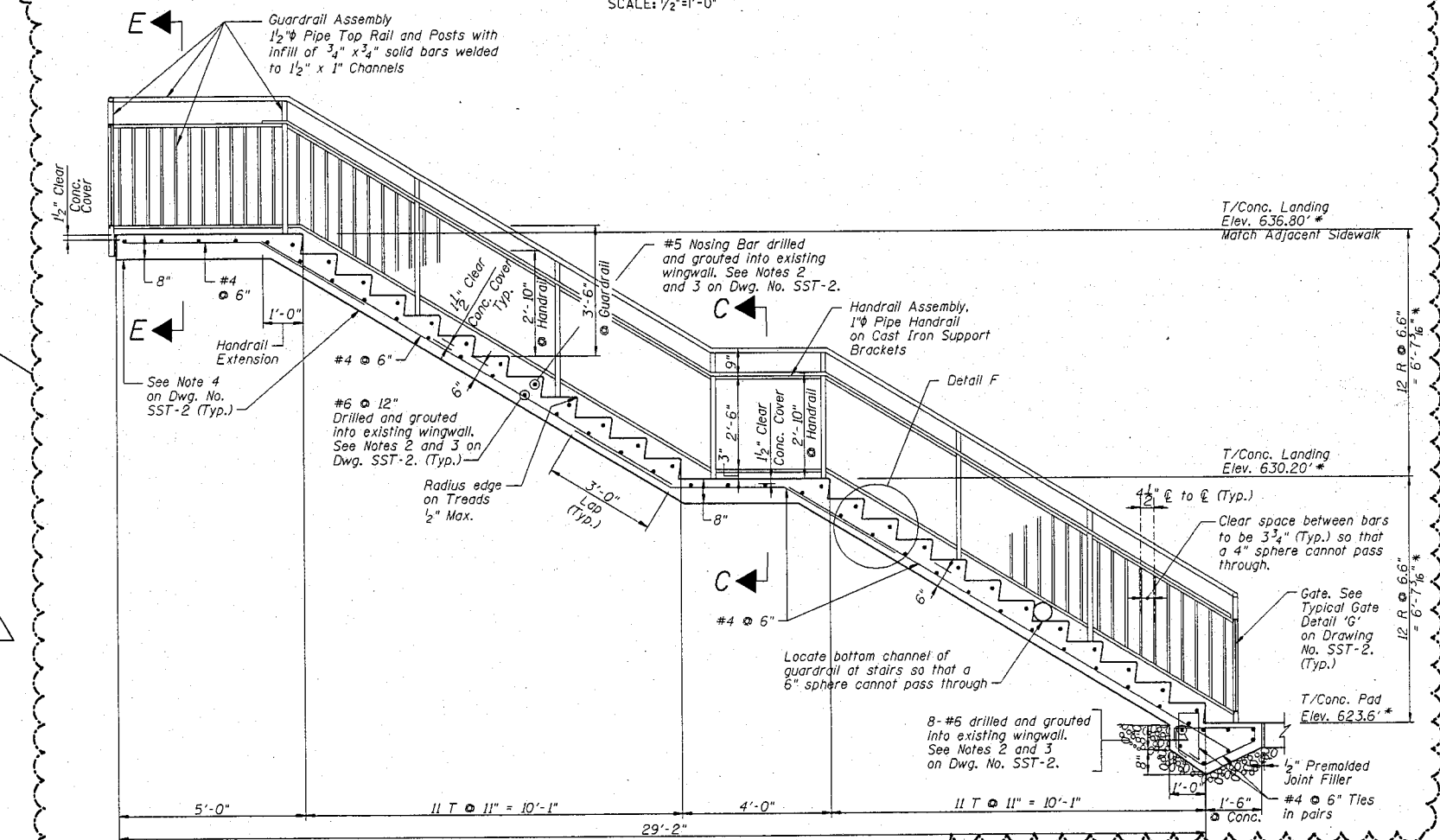
DESIGNED BY: _____
CHECKED BY: _____
DRAWN BY: _____



PLAN
SCALE: 1/8"=1'



PLAN DETAIL A
SCALE: 1/2"=1'-0"



SECTION B-B
SCALE: 1/2"=1'-0"

NOTES:

1. Sawcut and remove parapet and aluminum guardrail between existing guardrail posts. Existing plaque to remain. Field verify exact location.
2. Cut parapet reinf. bars back 2" from finished face of concrete and patch with non-shrink, non-metallic grout. Grind existing concrete corners to 3/4" chamfer.
3. Cap guardrail rails with field welded 3/8" cap plates. Grind weld all edges smooth.
4. All reinf. bars shall be epoxy coated.
5. For Sections and Details, see Dwg. No. SST-2.
6. * - Indicates dimensions or elevations to be verified in field by Contractor.

LEGEND:

- Indicates existing structure to be removed

BILL OF MATERIAL

Minor Street Stairs	L. Sum	1

DESIGNED BY: AAG/CLT
DRAWN BY: CHD

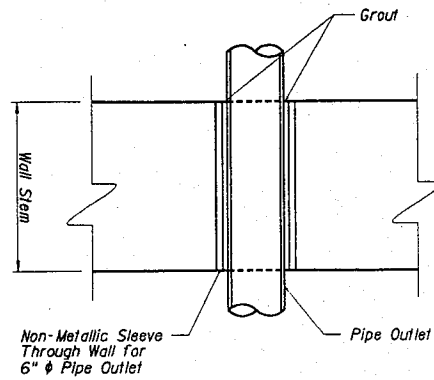
CHECKED BY: BJM
CHECKED BY: AAG/CLT

PLANS PREPARED BY:
CTE | AECOM

CTE
303 East Wacker Drive, Suite 600, Chicago, Illinois 60601-5276
T 312.638.0300 F 312.938.1109 www.cte.aecom.com

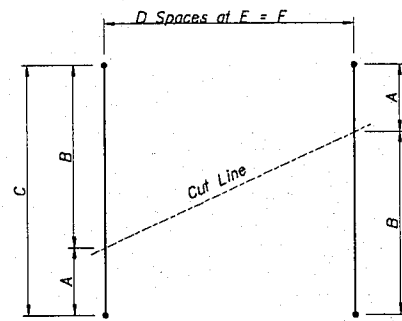
Revised 2/24/06, DRH SST-1 FR-416

02/17/2006 04:01:13 PM P:\P060003332\Struct\SMH\035153\SST-1.sht



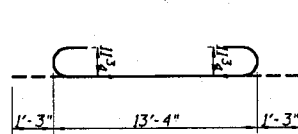
DETAIL B

Furnishing and installing Non-Metallic Sleeve and Non-Shrink Grout is included in the cost of "Concrete Box Culverts". See Sheet M-2 for pipe details.

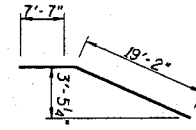


CUTTING DIAGRAM

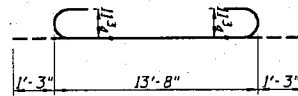
Bar	A	B	C	D	E	F
a1(E)	2'-0"	14'-0"	16'-0"	5	18"	7'-6"
a2(E)	12'-4"	14'-0"	26'-4"	6	18"	9'-0"
a5(E)	2'-1"	12'-3"	14'-4"	3	22"	5'-6"
a6(E)	1'-8"	12'-0"	16'-2"	12	6"	6'-0"
a9(E)	3'-0"	15'-0"	20'-6"	18	6"	9'-0"
h9(E)	9'-10"	18'-1"	27'-11"	12	12"	12'-0"



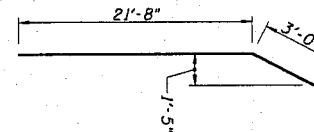
BAR a4(E)



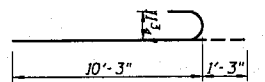
BAR h14(E)



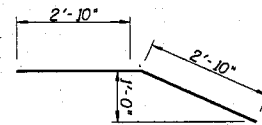
BAR a6(E)



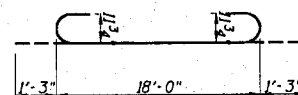
BARS h17(E) & h18(E)



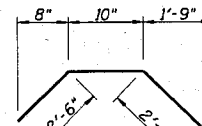
BAR a8(E)



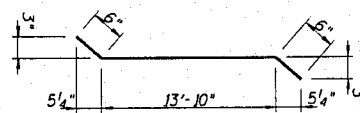
BAR h19(E)



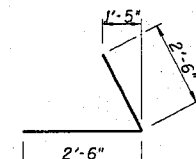
BAR a9(E)



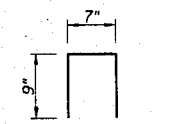
BAR h20(E)



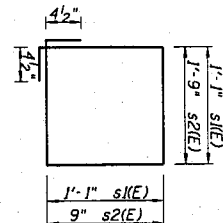
BARS a10(E) & a11(E)



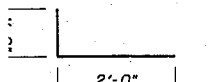
BAR h21(E)



BAR d2(E)



BARS s1(E), s2(E)



BAR d3(E)

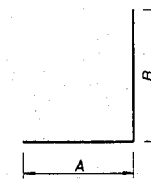
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1(E)	6	#5	16'-0"	—
a2(E)	7	#5	26'-4"	—
a3(E)	34	#4	12'-3"	—
a4(E)	262	#9	15'-10"	U
a5(E)	8	#5	14'-4"	—
a6(E)	26	#9	16'-2"	U
a7(E)	12	#4	3'-0"	L
a8(E)	72	#9	11'-6"	U
a9(E)	19	#9	20'-6"	U
a10(E)	8	#6	14'-10"	—
a11(E)	16	#10	14'-10"	—
a12(E)	45	#5	12'-3"	—
a13(E)	22	#5	2'-6"	L
d1(E)	19	#6	3'-0"	—
d2(E)	6	#4	2'-3"	U
d3(E)	34	#6	3'-0"	L
h1(E)	26	#7	22'-3"	L
h2(E)	13	#7	38'-0"	—
h3(E)	52	#7	25'-8"	—
h4(E)	13	#7	8'-1"	L
h5(E)	52	#7	23'-5"	—
h7(E)	52	#7	23'-5"	—
h9(E)	26	#7	27'-11"	—
h10(E)	12	#6	12'-0"	—
h11(E)	50	#6	22'-2"	—
h12(E)	20	#6	25'-3"	—
h13(E)	20	#6	6'-0"	—
h14(E)	10	#6	26'-4"	—
h15(E)	10	#6	8'-5"	—
h16(E)	10	#6	19'-5"	—
h17(E)	4	#10	24'-8"	—
h18(E)	24	#6	24'-8"	—
h19(E)	40	#6	5'-8"	—

BILL OF MATERIAL (cont.)

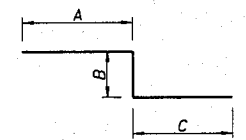
Bar	No.	Size	Length	Shape
h20(E)	10	#6	5'-10"	U
h21(E)	10	#6	5'-0"	U
h22(E)	4	#9	16'-8"	—
h23(E)	26	#5	16'-8"	—
h24(E)	10	#5	4'-8"	L
h25(E)	20	#6	7'-0"	L
h26(E)	8	#5	2'-6"	—
h27(E)	26	#7	25'-8"	—
s1(E)	64	#4	5'-1"	U
s2(E)	47	#4	5'-9"	U
v1(E)	364	#4	9'-3"	—
v2(E)	364	#4	2'-7"	—
v3(E)	22	#5	8'-4"	—
v4(E)	14	#7	15'-11"	—
v5(E)	16	#5	9'-4"	L
v6(E)	32	#7	10'-7"	L
v7(E)	16	#5	6'-1"	L
v8(E)	16	#7	7'-4"	L
v9(E)	10	#7	18'-11"	—
v10(E)	14	#5	10'-9"	L
v11(E)	27	#7	12'-0"	L
v12(E)	14	#6	5'-0"	L
v13(E)	14	#7	7'-8"	—
Bar Splicers		Ea		72
Concrete Box Culverts		Cu. Yd.		147
Concrete Superstructure		Cu. Yd.		8
Controlled Low-Strength Material		Cu. Yd.		440
Protective Coat		Sq. Yd.		18
Reinforcement Bars, Epoxy Coated		Pound		48,430
Removal of Existing Structures		L Sum		1
Structure Excavation		Cu. Yd.		1695
Sub-base Granular Material, Type B		Cu. Yd.		450
Temporary Soil Retention System		Sq. Ft.		1050
Waterproofing Membrane System		Sq. Yd.		119

Reinforcement bars designated (E) shall be epoxy coated.
⊗ Rebar dimensions are a function of existing structures or proposed floodwall and shall be verified in field.



BARS a7(E), a13(E), h1(E), h24(E), h25(E), v5(E), v6(E), v7(E), v8(E), v10(E) & v11(E)

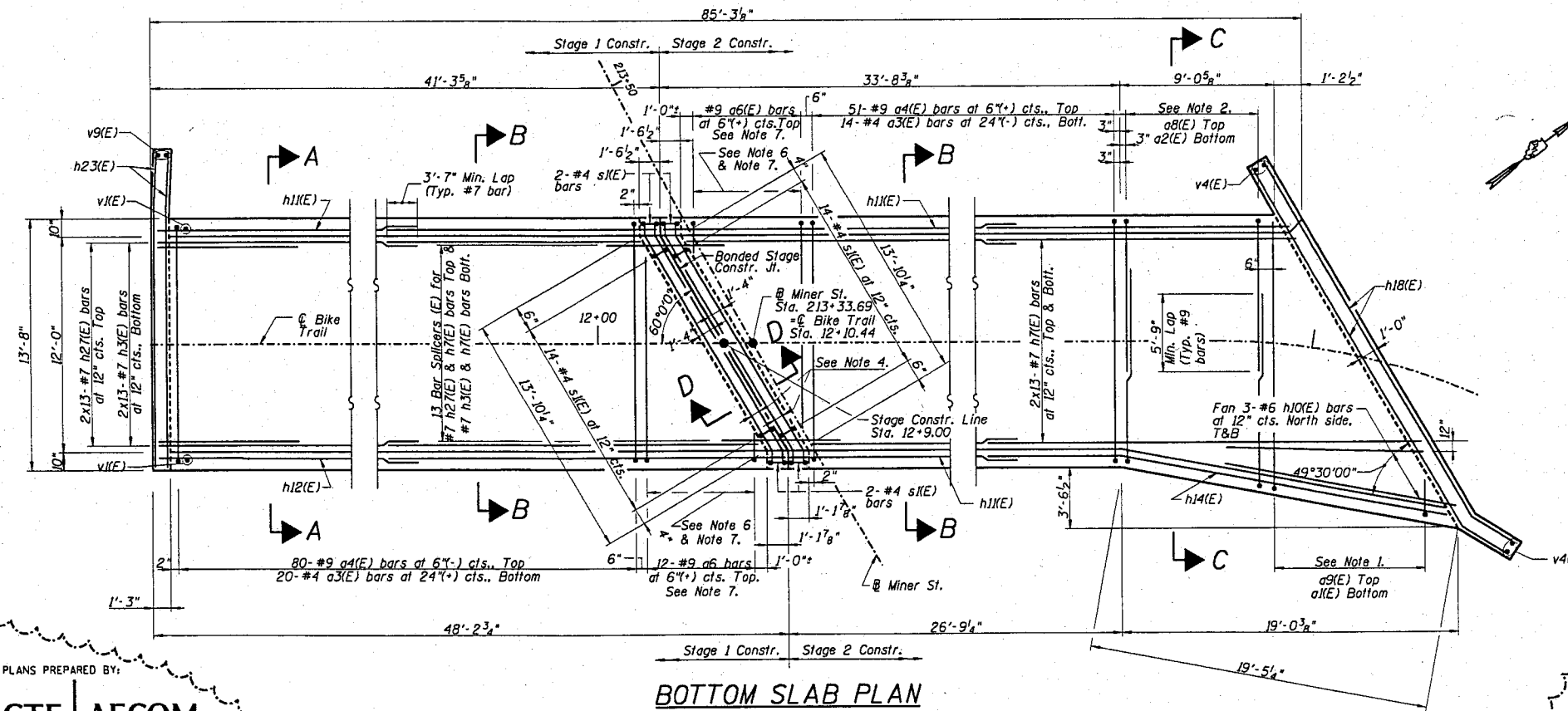
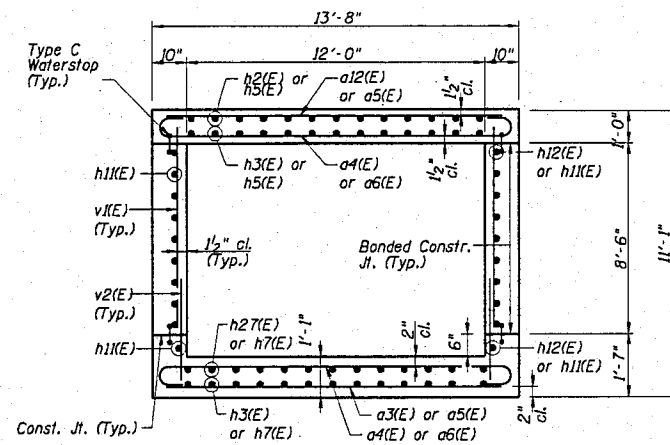
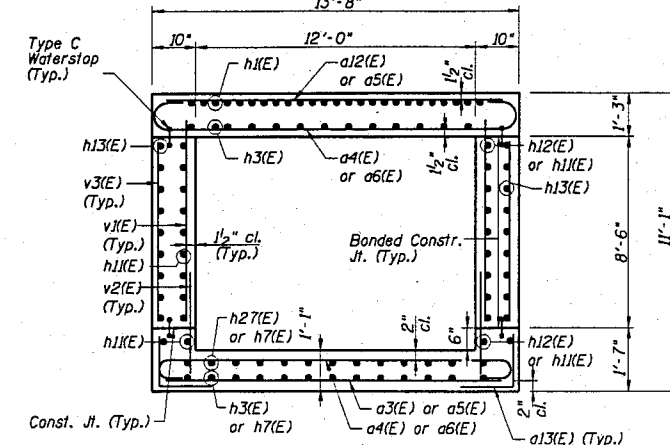
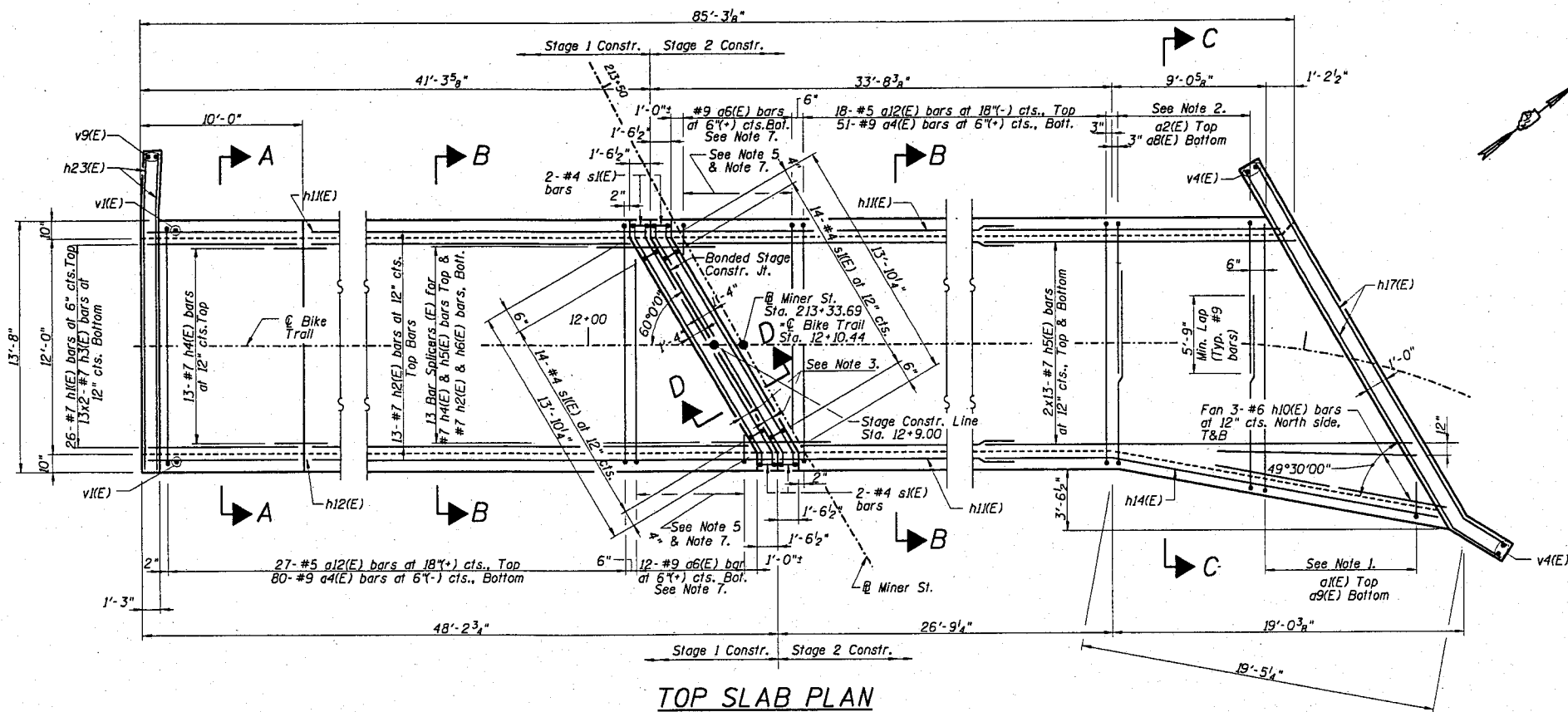
Bar	A	B
a7(E)	1'-6"	1'-6"
a13(E)	1'-3"	1'-3"
h1(E)	1'-2"	9'-7"
h24(E)	2'-2"	2'-6"
h25(E)	3'-6"	3'-6"
v5(E)	2'-2"	7'-2"
v6(E)	3'-5"	7'-2"
v7(E)	2'-2"	3'-11"
v8(E)	3'-5"	3'-11"
v10(E)	2'-2"	8'-7"
v11(E)	3'-5"	8'-7"



BARS h4(E) & v12(E)

Bar	A	B	C
h4(E)	3'-5"	3"	3'-5"
v12(E)	2'-6"	3"	2'-3"

Revised 2/24/06, DRH SMU-7 SCALE: NONE FR-416



NOTES:

- Order full length of a1(E) and a9(E) bars. Using the cutting diagram on Sheet SMU-7, place 6-#5 a1(E) bars at 18" cts. as top reinf. and 19-#9 a9(E) at 6" cts. as bottom reinf. in the top slab. Place remaining a1(E) at 18" cts. as bottom reinf. and remaining a9(E) bars at 6" cts. as top reinf. in the bottom slab.
- Order full length of a2(E). Using the cutting diagram on Sheet SMU-7, place 7-#5 a2(E) bars at 18" cts. as top reinf. and 2 x 18-#9 a8(E) at 6" cts. as bottom reinf. in the top slab. Place remaining a2(E) at 18" cts. as bottom reinf. and 2 x 18-#9 a8(E) bars at 6" cts. as top reinf. in the bottom slab.
- 2-#6 a10(E) Top, 4-#10 a11(E) Bottom.
- 2-#6 a10(E) Bottom, 4-#10 a11(E) Top.
- 4-#5 a5(E) bars, at 22" cts., Top
- 4-#5 a5(E) bars, at 22" cts., Bottom
- a5(E) & a6(E) bars shall be ordered full length and cut to fit. Balance of bar to be used on opposite side of Stage Constr. Joint. See Cutting Diagram on Sheet SMU-7.
- h9(E) bars shall be ordered full length. Balance of bar to be used in the top layer. See Cutting Diagram on Sheet SMU-7.
- For Sections C-C and D-D, See Sheet SMU-5.
- For Waterstop Details, see Sheet SGND-2.
- For north headwall dimensions, see Section F-F on Sheet SMU-6.

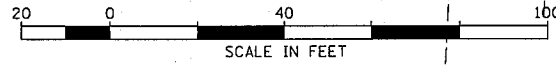
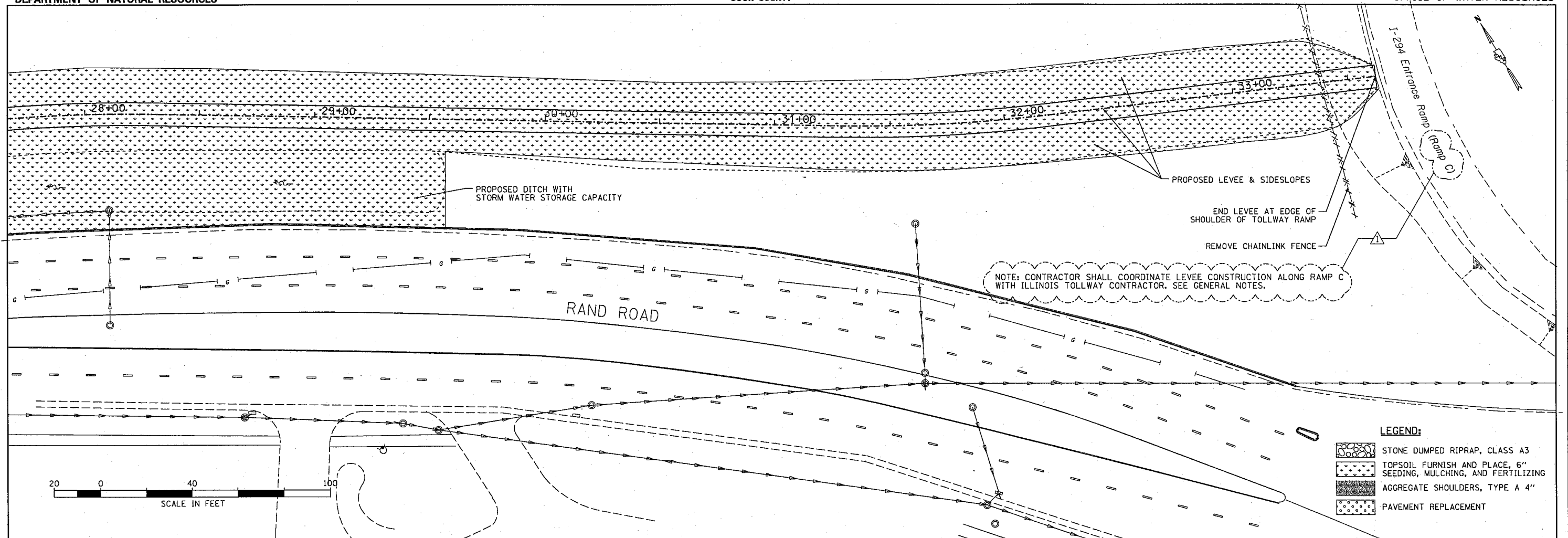
DESIGNED BY: JMB
DRAWN BY: RJ
CHECKED BY: BJM
CHECKED BY: BJM

PLANS PREPARED BY:
CTE | AECOM
CTE
303 East Wacker Drive, Suite 600, Chicago, Illinois 60601-5278
T 312.838.0300 F 312.838.1108 www.cte.aecom.com

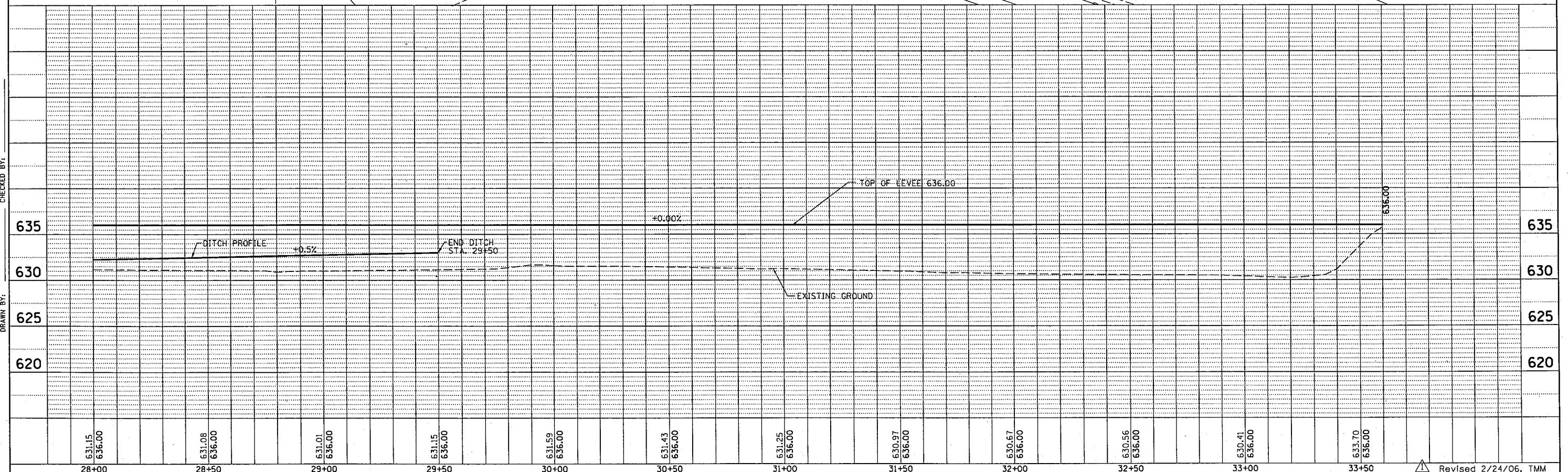
Revised 2/24/06, DRH

SCALE: NONE
SMU-4 FR-416

02/21/2006 02:28:59 PM P:\p60003332\struct\sh1\035100-SMU-4.sht

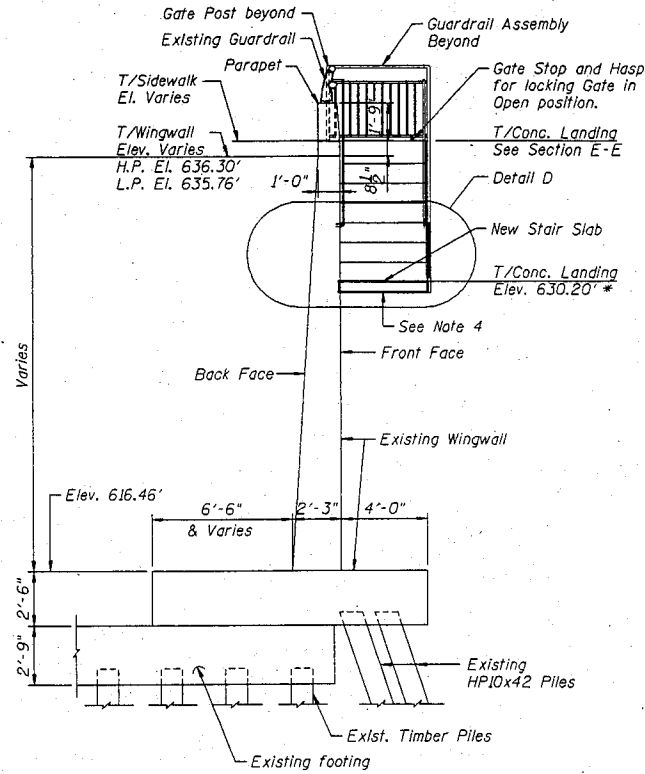


- LEGEND:**
- STONE DUMPED RIPRAP, CLASS A3
 - TOPSOIL FURNISH AND PLACE, 6" SEEDING, MULCHING, AND FERTILIZING
 - AGGREGATE SHOULDERS, TYPE A 4"
 - PAVEMENT REPLACEMENT



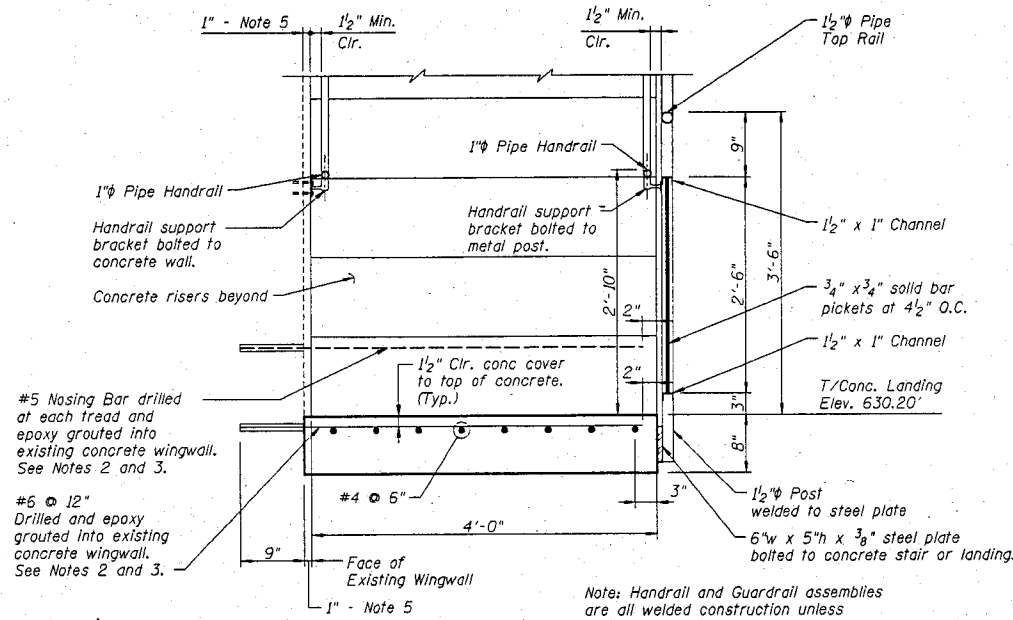
Revised 2/24/06, TMM

02/24/2006 08:46:20 AM D:\Dwr\Proj\p\Projects\Rand Park Phase III\FR160\CTE Final Submittal\FINAL IDNR Submittal\01-31-06 Drawings\Civil\sh\02CPP-10.SHT



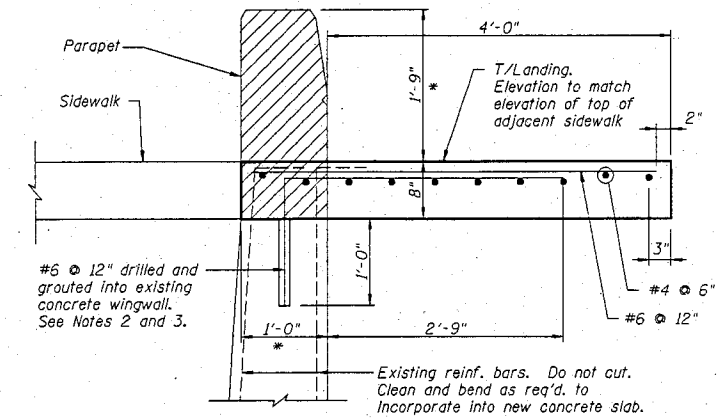
SECTION C-C

SCALE: 1/4"=1'



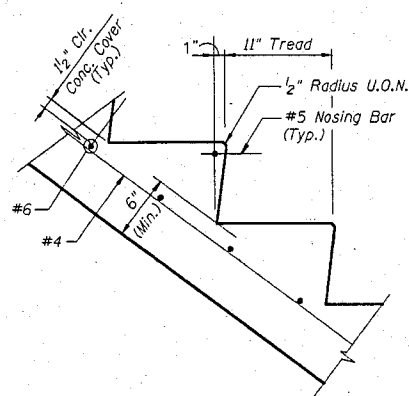
DETAIL D

SCALE: 1"=1'



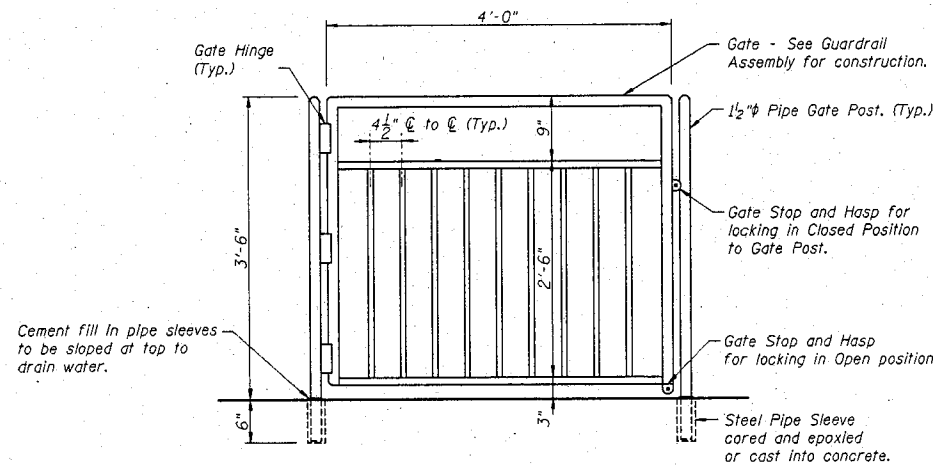
SECTION E-E

SCALE: 1"=1'



TYPICAL STAIR TREAD DETAIL F

SCALE: 1"=1'



TYPICAL GATE DETAIL G

SCALE: 1"=1'

NOTES:

1. For Plan and Sections, see Dwg. No. SST-1.
2. Do not cut existing wingwall reinforcing bars when drilling holes for drilled and epoxied reinforcing bars. Locate reinforcing bars prior to drilling holes by use of a pachometer or by chipping concrete away to expose face of reinforcing bars.
3. Use a two part epoxy adhesive, Hilti Re 500 Adhesive Anchor System as manufactured by Hilti for anchoring reinforcing bars in holes drilled into the existing wingwall. Install in accordance with manufacturer's instructions. Substitutions not allowed without approval of Engineer.
4. Do not remove forms, shoring and falsework for stairs until concrete has attained a minimum compressive strength of 4000 psi at 28 days and the concrete has been in place for a minimum of 28 days.
5. Sawcut, chip and remove 1" deep keyway in existing wingwall for entire length of stair. Keyway depth to match profile of stair. Roughen and bond new concrete to existing with cement slurry.
6. * - Indicates dimensions or elevations to be verified in field by Contractor.

DESIGNED BY: AAG/CLT
DRAWN BY: CHD
CHECKED BY: BJM
CHECKED BY: AAG/CLT

PLANS PREPARED BY:

CTE | AECOM

CTE
303 East Wacker Drive, Suite 600, Chicago, Illinois 60601-5278
T 312.938.0300 F 312.938.1108 www.cte.aecom.com

Revised 2/24/06, DRH

SST-2 FR-416