Proposed Improvements for

EDWARD J. HINES JR. VA HOSPITAL

RECONFIGURE PARKING LOTS - PHASE 4

HINES, ILLINOIS

STANDARD SYMBOLS

EXISTING | PROPOSED

STORM SEWER
SANITARY SEWER
FORCEMAIN
DRAINTILE
WATER MAIN
ELECTRIC
GAS
TELEPHONE
SANITARY MANHOLE
STORM MANHOLE
CATCH BASIN
STORM INLET
CLEANOUT
HAY BALES
RIP RAP
VALVE IN VAULT
VALVE IN BOX
FIRE HYDRANT
BUFFALO BOX
FLARED END SECTION
STREET LIGHT
SUMMIT
LOW POINT
RIM ELEVATION
INVERT ELEVATION
DITCH OR SWALE
DIRECTION OF FLOW
OVERFLOW RELIEF SWALE
1 FOOT CONTOURS
CURB AND GUTTER
DEPRESSED CURB AND GUTTER
REVERSE CURB AND GUTTER
SIDEWALK
H.C. ACCESSIBLE RAMP
DETECTABLE WARNING
PROPERTY LINE
EASEMENT LINE
SETBACK LINE
MAIL BOX
SIGN
TRAFFIC SIGNAL
POWER POLE
GUY WIRE
GAS VALVE
HANDHOLE
ELECTRICAL EQUIPMENT
TELEPHONE EQUIPMENT
CHAIN-LINK FENCE
SPOT ELEVATION
BRUSH/TREE LINE
DECIDUOUS TREE WITH TRUNK DIA. IN INCHES (TBR)
CONIFEROUS TREE WITH HEIGHT IN FEET (TBR)
SILT FENCE
RETAINING WALL
WETLAND

ABBREVIATIONS

ADJ	ADJUST	MB	MAILBOX
AGG.	AGGREGATE	MH	MANHOLE
ARCH	ARCHITECT	MIN.	MINIMUM
B.A.M.	BITUMINOUS AGGREGATE MIXTURE	NWL	NORMAL WATER LEVEL
B-B	BACK TO BACK	OLID	OPEN LID
B/P	BOTTOM OF PIPE	P.E.	PRIVATE ENTRANCE
B/W	BACK OF WALK	PC	POINT OF CURVE
B-BOX	BUFFALO BOX	PCC	POINT OF COMPOUND CURVE
BIT.	BITUMINOUS	PGL	PROFILE GRADE LINE
BM	BENCHMARK	PI	POINT OF INTERSECTION
B.O.	BY OTHERS	PL	PROPERTY LINE
C.E.	COMMERCIAL ENTRANCE	PP	POWER POLE
CB	CATCH BASIN	PROP.	PROPOSED
CL	CENTERLINE	PT	POINT OF TANGENCY
CLID	CLOSED LID	PVC	POLYVINYL CHLORIDE PIPE
CMP	CORRUGATED METAL PIPE	PVC	POINT OF VERTICAL CURVE
CNTRL	CONTROL	PVI	POINT OF VERTICAL INTERSECTION
C.O.	CLEANOUT	PVT	POINT OF VERTICAL TANGENCY
CONC.	CONCRETE	P	PAVEMENT
CY	CUBIC YARD	P.U.D.E.	PUBLIC UTILITY AND DRAINAGE EASEMENT
D	DITCH	R	RADIUS
DIA.	DIAMETER	R.O.W.	RIGHT-OF-WAY
DIP	DUCTILE IRON PIPE	RCP	REINFORCED CONCRETE PIPE
DIWM	DUCTILE IRON WATER MAIN	REM	REMOVAL
DS	DOWNSPOUT	RR	RAILROAD
DT	DRAIN TILE	RT	RIGHT
E	ELECTRIC	SAN	SANITARY
E-E	EDGE TO EDGE	SF	SQUARE FOOT
ELEV.	ELEVATION	SHLD.	SHOULDER
E/P	EDGE OF PAVEMENT	SL	STREET LIGHT
EX.	EXISTING	SMH	SANITARY MANHOLE
F.E.	FIELD ENTRANCE	ST	STORM
F-F	FACE TO FACE	STA.	STATION
F.F.	FINISHED FLOOR	STD	STANDARD
FES	FLARED END SECTION	SW	SIDEWALK
F/L	FLOW LINE	SY	SQUARE YARDS
FM	FORCE MAIN	TBR	TO BE REMOVED
G	GROUND	T	TELEPHONE
GAS	GAS	T-A	TYPE A
G/F	GRADE AT FOUNDATION	T/C	TOP OF CURB
G/WALL	GRADE AT WALL	T/F	TOP OF FOUNDATION
GM	GENERAL MERCHANDISE	T/P	TOP OF PIPE
GR	GROCERY	T/W	TOP OF WALK
GW	GUY WIRE	T/WALL	TOP OF WALL
HDWL	HEADWALL	TEMP	TEMPORARY
HH	HANDHOLE	TRANS	TRANSFORMER
HWL	HIGH WATER LEVEL	V.B.	VALVE BOX
HYD.	HYDRANT	VCB	VITRIFIED CLAY PIPE
INL	INLET	V.V.	VALVE VAULT
INV.	INVERT	WL	WATER LEVEL
IP	IRON PIPE	WM	WATER MAIN
MAX.	MAXIMUM		

MANHARD CONSULTING, LTD. IS NOT RESPONSIBLE FOR THE SAFETY OF ANY PARTY AT OR ON THE CONSTRUCTION SITE. SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND ANY OTHER PERSON OR ENTITY PERFORMING WORK OR SERVICES. NEITHER THE OWNER NOR ENGINEER ASSUMES ANY RESPONSIBILITY FOR THE JOB SITE SAFETY OF PERSONS ENGAGED IN THE WORK OR THE MEANS OR METHODS OF CONSTRUCTION.

BENCHMARKS:

SITE BENCHMARKS:

HINES VA HOSPITAL 7 (PID: BBCJ75):

ALUMINUM DISK SET IN CONCRETE LOCATED AT THE N.E. CORNER OF TRIPP AVENUE AND AIR MAIL ROAD ON THE HINES VA HOSPITAL CAMPUS. DISK IS 3 E. OF THE TRIPP AVENUE BACK OF CURB, 12 FEET S.W. OF A MANHOLE AND 44 FEET N.E. OF THE CENTERLINE OF AIR MAIL ROAD AND TRIPP AVENUE.

DISK ELEVATION FOR "HINES VA HOSPITAL 1" WAS HELD FOR THE CONTROL MONUMENT NETWORK AND THE REMAINING "HINES VA HOSPITAL" DISK ELEVATIONS WERE ESTABLISHED BY LEVEL CIRCUITS.

NORTH = 1889650.433 EAST = 1118936.686

ELEVATION = 623.13 (NAVD88)

HINES VA HOSPITAL 8 (PID: BBCJ76):

ALUMINUM DISK SET IN CONCRETE LOCATED 710 FEET S.E. OF THE CENTERLINE TRIPP AVE AND AIR MAIL ROAD AND 400 FEET N.W. OF THE ALABAMA LOT ON THE HINES VA HOSPITAL CAMPUS. DISK IS 17 FEET SOUTH OF THE AIR MAIL ROAD BACK OF CURB, 14 FEET N. OF A CHAIN LINK FENCE AND 6 FEET E. OF STORM MANHOLE.

DISK ELEVATION FOR "HINES VA HOSPITAL 1" WAS HELD FOR THE CONTROL MONUMENT NETWORK AND THE REMAINING "HINES VA HOSPITAL" DISK ELEVATIONS WERE ESTABLISHED BY LEVEL CIRCUITS.

NORTH = 1889267.202 EAST = 1119530.622

ELEVATION = 623.58 (NAVD88)

HINES VA HOSPITAL 3 (PID: BBCJ71):

ALUMINUM DISK SET IN CONCRETE LOCATED ALONG THE W. LINE OF THE HINES VA HOSPITAL CAMPUS. DISK IS W. OF SCOTT DRIVE NEAR THE NEBRASKA LOT, 260 FEET N. OF WAREHOUSE BUILDING #200, 43 FEET E. OF A METAL FENCE AND 8 FEET N. OF LIGHT POLE BASE.

DISK ELEVATION FOR "HINES VA HOSPITAL 1" WAS HELD FOR THE CONTROL MONUMENT NETWORK AND THE REMAINING "HINES VA HOSPITAL" DISK ELEVATIONS WERE ESTABLISHED BY LEVEL CIRCUITS.

NORTH = 1892524.519 EAST = 1117832.203

ELEVATION = 624.71 (NAVD88)

HINES VA HOSPITAL 4 (PID: BBCJ72):

ALUMINUM DISK SET IN CONCRETE LOCATED AT THE N.W. CORNER OF THE HINES VA HOSPITAL CAMPUS. DISK IS W. OF FEARS DRIVE, 6 FEET E. OF A METAL FENCE AND 36 FEET S. OF A FIRE HYDRANT.

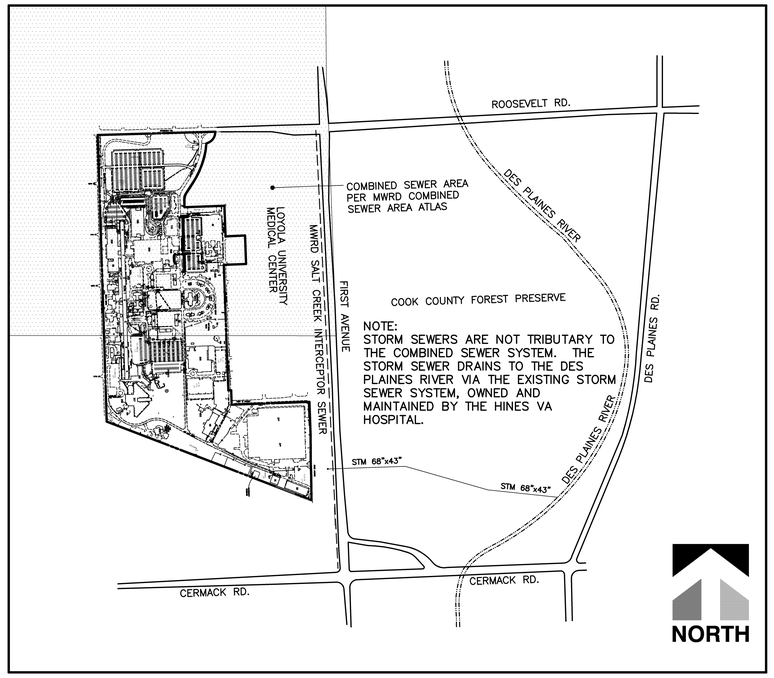
DISK ELEVATION FOR "HINES VA HOSPITAL 1" WAS HELD FOR THE CONTROL MONUMENT NETWORK AND THE REMAINING "HINES VA HOSPITAL" DISK ELEVATIONS WERE ESTABLISHED BY LEVEL CIRCUITS.

NORTH = 1893447.493 EAST = 1117797.919

ELEVATION = 624.75 (NAVD88)

NOTES:

1. THE TOPOGRAPHY SURVEY FOR THIS PROJECT IS BASED ON A FIELD SURVEY PREPARED BY COWHEY MANHARD, AND WAS PERFORMED ON MARCH 1, 2012. THE CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY MANHARD CONSULTING AND THE CLIENT IN WRITING OF ANY DIFFERING CONDITIONS.



LOCATION MAP

GRAPHIC SCALE

800 0 400 800 1600 3200

(IN FEET)
1 inch = 800 ft.

MWRD GENERAL NOTES

1. THE MWRD SEWER PERMIT SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) DAYS PRIOR TO THE COMMENCEMENT OF WORK (CALL 708-588-4055)

2. ELEVATION DATUM IS U.S.G.S. (NAVD 88)

3. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER. THIS REQUIREMENT IS NOT APPLICABLE FOR THIS MWRD PERMIT APPLICATION.

4. ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SYSTEM. THIS REQUIREMENT IS NOT APPLICABLE FOR THIS MWRD PERMIT APPLICATION.

5. SANITARY SEWERS SHALL BE CONSTRUCTED OF THE FOLLOWING MATERIALS AS SPECIFIED ON THE PLANS: A. POLYVINYL CHLORIDE PLASTIC GRAVITY SEWER PIPE (PVC) CONFORMING TO ASTM DESIGNATION D-3034 WITH AN SDR OF 26 WITH ELASTOMETRIC GASKET JOINTS CONFORMING TO ASTM DESIGNATION D-3212 AND F-477. B. DUCTILE IRON PIPE CLASS 52 CONFORMING TO ANSI A21.51 (AWWA C-151) WITH JOINTS CONFORMING TO ANSI A21.11 (AWWA C-111).

6. ALL SANITARY SEWER (AND STORM IN COMBINED SEWER AREAS), CONSTRUCTION REQUIRES STONE BEDDING 1/4" TO 1" IN SIZE, WITH A MINIMUM THICKNESS EQUAL TO 1/4 THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR (4) INCHES NOR MORE THAN EIGHT (8) INCHES. MATERIAL SHALL BE CA-11 OR CA-13 AND SHALL EXTEND AT LEAST 12" ABOVE THE TOP OF THE PIPE WHEN USING PVC.

7. "BAND-SEAL" OR SIMILAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPE OF DISSIMILAR MATERIALS.

8. WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:

A. CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ("SEWER-TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUB-WYE SADDLE OR HUB-TEE SADDLE.
B. REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.
C. WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING "BAND-SEAL" OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE.

9. WHEREVER A SEWER CROSSES UNDER A WATER MAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATER MAIN SHALL BE 18" (IN.). FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10' (FT.) BETWEEN SANITARY SEWERS AND WATER MAINS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" (IN.) VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATER MAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM OF 18" (IN.) VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED ABOVE CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATER MAIN, THE SEWER SHALL BE CONSTRUCTED TO WATER MAIN STANDARDS.

10. ALL EXISTING SEPTIC SYSTEMS TO BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED.

11. ALL SANITARY MANHOLES, AND STORM MANHOLES IN COMBINED SEWER AREAS SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48" (IN.), AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED CONCRETE. ALL CONSTRUCTION SHALL CONFORM TO THE "ILLINOIS RECOMMENDED STANDARDS FOR SEWAGE WORKS" LATEST EDITION, PUBLISHED BY THE IEPA EXCEPT FOR CONFLICTS WITH THE MWRD SEWER PERMIT AND "MANUAL OF PROCEDURES ORDINANCES", WHERE THE MWRD ORDINANCE SHALL TAKE PRECEDENCE.

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CONSTRUCTION DOCUMENTS 04/18/12

Revisions:	Date
Revised Per VA Comments	04/18/12
Construction Amendment 1	05/17/12

CONSULTANTS:

Cowhey Manhard
A MANHARD CONSULTING DIVISION

Jacobs/Ryan Associates Landscape Architects
1527 North Sandburg Terrace Chicago, Illinois 60610 (312) 664-3217

EPSTEIN

ARCHITECT / ENGINEER:

TRAFFIC ANALYSIS & DESIGN, INC.

Drawing Title: COVER SHEET

Approved: Project Director

Project Title: Edward J. Hines Jr. VA Hospital Reconfigure Parking Lots-Phase 4

Project Number: 578-12-090

Building Number: N/A

Location: HINES, ILLINOIS

Date: 03/29/12 | Checked: BJA | Drawn: BJA

Drawing Number: G-001

Dwg. of

Office of Construction and Facilities Management

Department of Veterans Affairs

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