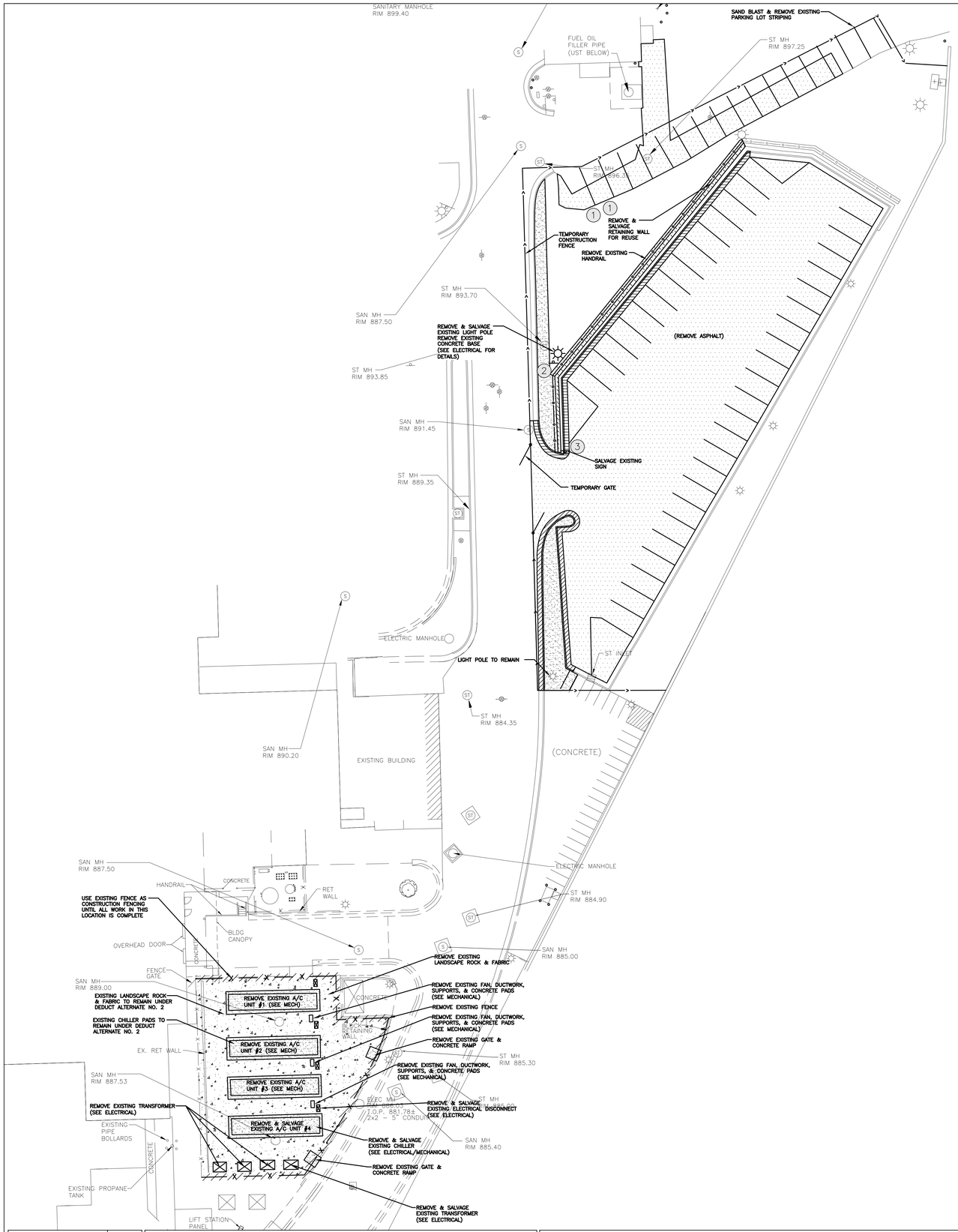
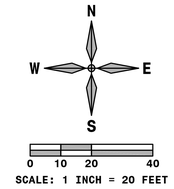




SYMBOL LEGEND:

- EXISTING STORM INLET
- EXISTING STORM MANHOLE
- EXISTING SANITARY MANHOLE
- EXISTING MANHOLE
- EXISTING CURB STOP
- EXISTING GATE VALVE
- EXISTING LIGHT POLE
- EXISTING SIGN
- EXISTING TREE
- EXISTING FENCE
- EXISTING HANDRAIL
- REMOVE EXISTING HANDRAIL
- REMOVE EXISTING FENCE
- REMOVE EXISTING CONCRETE PAVEMENT
- REMOVE EXISTING CONCRETE CURB & GUTTER
- REMOVE EXISTING ASPHALT PAVEMENT
- REMOVE EXISTING RETAINING WALL
- REMOVE EXISTING LANDSCAPE ROCK
- NEW CONSTRUCTION FENCING
- SCHEDULE ITEM NUMBER

	SIGN SCHEDULE
SIGN	DESCRIPTION OF SIGN
1	SALVAGE "RIDE SHARE VAN POOL PARKING ONLY" SIGN
2	SALVAGE "NO PARKING ANY TIME" SIGN
3	SALVAGE STOP SIGN

PLAN NOTES:

1. CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. NORTH DAKOTA ONE CALL WILL ONLY LOCATE THEIR MAINS AND WILL NOT LOCATE PRIVATE UTILITIES ON THIS SITE. THE VA IS NOT RESPONSIBLE FOR LOCATING ANY ON SITE UTILITIES.
2. CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF ALL EXISTING/PROPOSED UTILITY CROSSINGS, AND WHERE EXISTING UTILITIES CONNECT INTO NEW UTILITY MAINS.
3. ALL PAVEMENT MARKED FOR DEMOLITION SHALL BE FULL DEPTH SAW CUT PRIOR TO REMOVAL.
4. CONTRACTOR SHALL KEEP ACCESS OPEN TO ALL EXISTING DOORS, FIRE EXITS, AND LOADING DOCKS DURING ALL PHASES OF CONSTRUCTION. IF TEMPORARY CLOSURES ARE REQUIRED, COORDINATE WITH VA ADMINISTRATION A MINIMUM OF 2 WEEKS IN ADVANCE.
5. CONTRACTOR IS REQUIRED TO MAINTAIN ONE DRIVING LANE OPEN AT ALL TIMES. IF ROAD CLOSURE IS REQUIRED, COORDINATE WITH VA ADMINISTRATION A MINIMUM OF 2 WEEKS IN ADVANCE.
6. CONTRACTOR IS RESPONSIBLE FOR GENERAL TRAFFIC CONTROL TO ALLOW FOR PUBLIC ACCESS THROUGH THE PROJECT SITE. CONTRACTOR SHALL PROVIDE ADEQUATE SIGNS FOR PUBLIC SAFETY AND TRAFFIC CONTROL. CONTRACTOR IS RESPONSIBLE TO KEEP ACCESS TO THE EAST & NORTH LOADING DOCK OPEN FOR DAILY DELIVERIES & COORDINATE ANY RESTRICTIONS WITH THE VA ADMINISTRATION.
7. CONTRACTOR SHALL MAINTAIN 8.0' BURY DEPTH OVER ALL NEW WATERMAIN.
8. CONTRACTOR SHALL PROVIDE AND INSTALL ANY ADDITIONAL FITTINGS, PIPING, AND OFFSETS TO ACCOUNT FOR UTILITY LOCATIONS AND CROSSINGS NOT INDICATED ON THE PLANS.
9. CONTRACTOR SHALL BACKFILL AND COMPACT ALL EXCAVATED AREAS TO 95% STANDARD PROCTOR DENSITY.
10. ALL GRASSED AREAS DISTURBED BY CONSTRUCTION SHALL HAVE TOPSOIL (6" DEPTH), GRADED, SEEDED, AND HYDRO-MULCHED.

Revisions	Date

Dept. of Veterans Affairs
Health Care System
2101 Elm Street North
Fargo, ND 58102

IMAGE GROUP INC.
403 CENTER AVENUE, SUITE 300
MOORHEAD, MN 56560

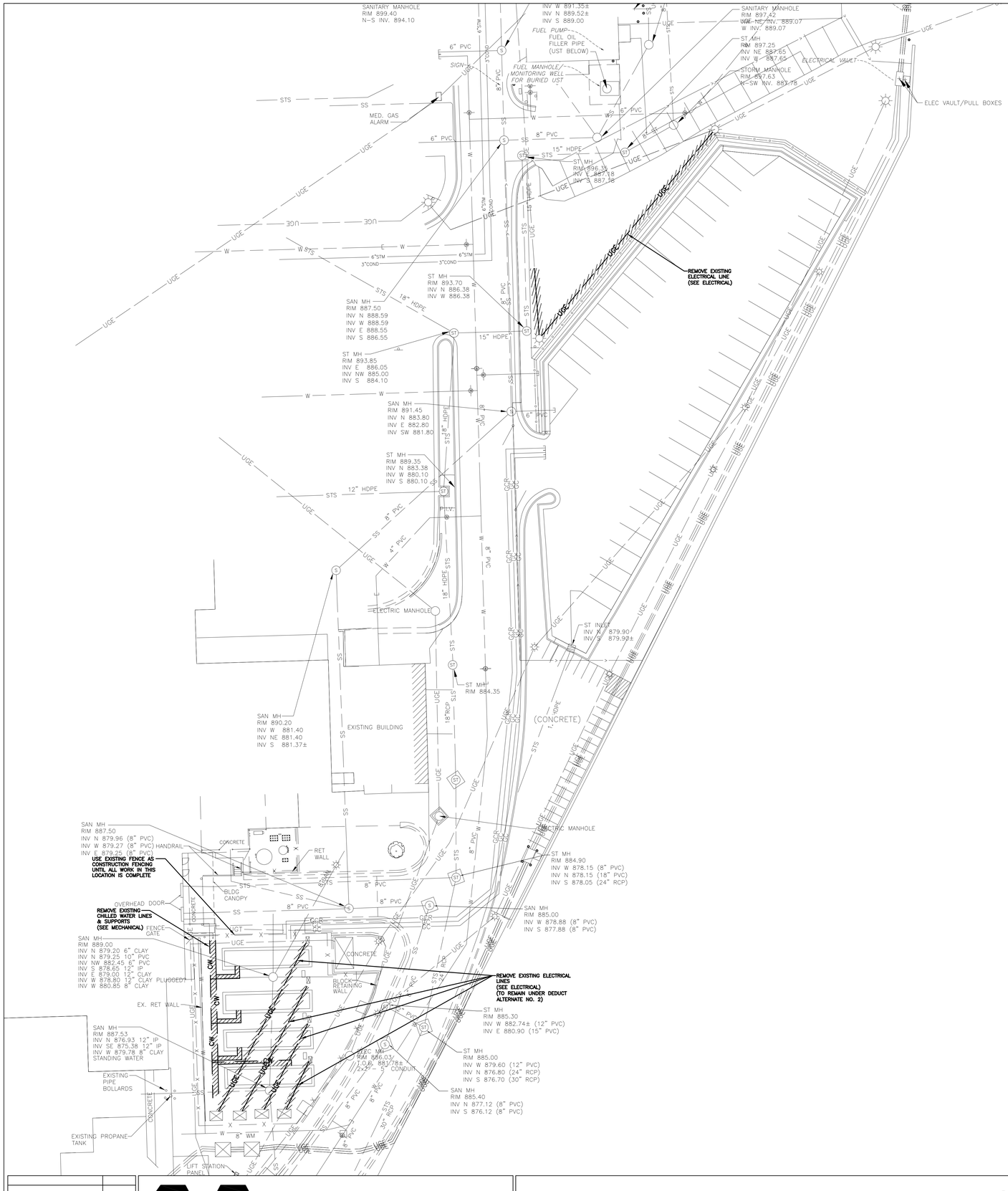
IMAGE GROUP INC., Architecture & Interiors
OBERMILLER NELSON ENGINEERING, Mechanical Engineers
MBN ENGINEERING, Civil & Electrical Engineers
SOLIEN & LARSON ENGINEERING, Structural Engineers

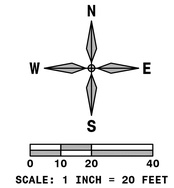
MBN ENGINEERING
MECHANICAL * ELECTRICAL * CIVIL
503 7th St N, SUITE 200
FARGO, ND 58102
PHONE: 701.478.6336
FAX: 701.478.6340

PROFESSIONAL ENGINEER
ANTHONY K. PETERSON
PE-6864
NORTH DAKOTA
DATE 12/18/15

Drawing Title: DEMOLITION-PAVING PLAN	Project Title: REPLACE CENTRAL CHILLER PLANT		Date: DECEMBER 18, 2015
			Scale: AS SHOWN
VA Project No.: 437-14-111	Contract No.: VA263-P-1217 / VA263-C-	Designed By: TE / Checked By: TE / Drawn By: TS	Drawing No.: C1
Building No.: 56	AutoCAD File Name: 14-125 C1.dwg	Location: FARGO VA HEALTH CARE SYSTEM FARGO, ND	Dwg. 2 of 26

Department of Veterans Affairs





SYMBOL LEGEND:

	EXISTING STORM INLET
	EXISTING STORM MANHOLE
	EXISTING SANITARY MANHOLE
	EXISTING MANHOLE
	EXISTING CURB STOP
	EXISTING GATE VALVE
	EXISTING LIGHT POLE
	EXISTING SIGN
	EXISTING TREE
SS	EXISTING SANITARY SEWER LINE
IRR	EXISTING IRRIGATION LINE
STS	EXISTING STORM SEWER LINE
W	EXISTING WATERMAIN LINE
CW	EXISTING CHILLED WATER LINE
UGE	EXISTING UNDERGROUND ELECTRIC LINE
6"STM	EXISTING 6" STEAM LINE
3"COND	EXISTING 3" CONDENSER LINE
STEAM	EXISTING STEAM LINE
COND	EXISTING CONDENSER LINE
FO	EXISTING UNDERGROUND FIBER OPTIC
GC, GCR	EXISTING CHILLED WATER LINE
X	EXISTING FENCE
	EXISTING HANDRAIL
UGE	REMOVE EXISTING UNDERGROUND ELECTRIC LINE (SEE ELECTRICAL)
CW	REMOVE EXISTING CHILLED WATER LINE (SEE ELECTRICAL)

PLAN NOTES:

1. CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. NORTH DAKOTA ONE CALL WILL ONLY LOCATE THEIR MAINS AND WILL NOT LOCATE PRIVATE UTILITIES ON THIS SITE. THE VA IS NOT RESPONSIBLE FOR LOCATING ANY ON SITE UTILITIES.
2. CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF ALL EXISTING/PROPOSED UTILITY CROSSINGS, AND WHERE EXISTING UTILITIES CONNECT INTO NEW UTILITY MAINS.
3. ALL PAVEMENT MARKED FOR DEMOLITION SHALL BE FULL DEPTH SAW CUT PRIOR TO REMOVAL.
4. CONTRACTOR SHALL KEEP ACCESS OPEN TO ALL EXISTING DOORS, FIRE EXITS, AND LOADING DOCKS DURING ALL PHASES OF CONSTRUCTION. IF TEMPORARY CLOSURES ARE REQUIRED, COORDINATE WITH VA ADMINISTRATION A MINIMUM OF 2 WEEKS IN ADVANCE.
5. CONTRACTOR IS REQUIRED TO MAINTAIN ONE DRIVING LANE OPEN AT ALL TIMES. IF ROAD CLOSURE IS REQUIRED, COORDINATE WITH VA ADMINISTRATION A MINIMUM OF 2 WEEKS IN ADVANCE.
6. CONTRACTOR IS RESPONSIBLE FOR GENERAL TRAFFIC CONTROL TO ALLOW FOR PUBLIC ACCESS THROUGH THE PROJECT SITE. CONTRACTOR SHALL PROVIDE ADEQUATE SIGNS FOR PUBLIC SAFETY AND TRAFFIC CONTROL. CONTRACTOR IS RESPONSIBLE TO KEEP ACCESS TO THE EAST & NORTH LOADING DOCK OPEN FOR DAILY DELIVERIES & COORDINATE ANY RESTRICTIONS WITH THE VA ADMINISTRATION.
7. CONTRACTOR SHALL MAINTAIN 8.0' BURY DEPTH OVER ALL NEW WATERMAIN.
8. CONTRACTOR SHALL PROVIDE AND INSTALL ANY ADDITIONAL FITTINGS, PIPING, AND OFFSETS TO ACCOUNT FOR UTILITY LOCATIONS AND CROSSINGS NOT INDICATED ON THE PLANS.
9. ALL GRASSED AREAS DISTURBED BY CONSTRUCTION SHALL HAVE TOPSOIL (6" DEPTH), GRADED, SEEDED, AND HYDRO-MULCHED.

Revisions	Date

Dept. of Veterans Affairs
Health Care System
2101 Elm Street North
Fargo, ND 58102

IMAGE GROUP
IMAGE GROUP INC.
403 CENTER AVENUE, SUITE 300
MOORHEAD, MN 56560

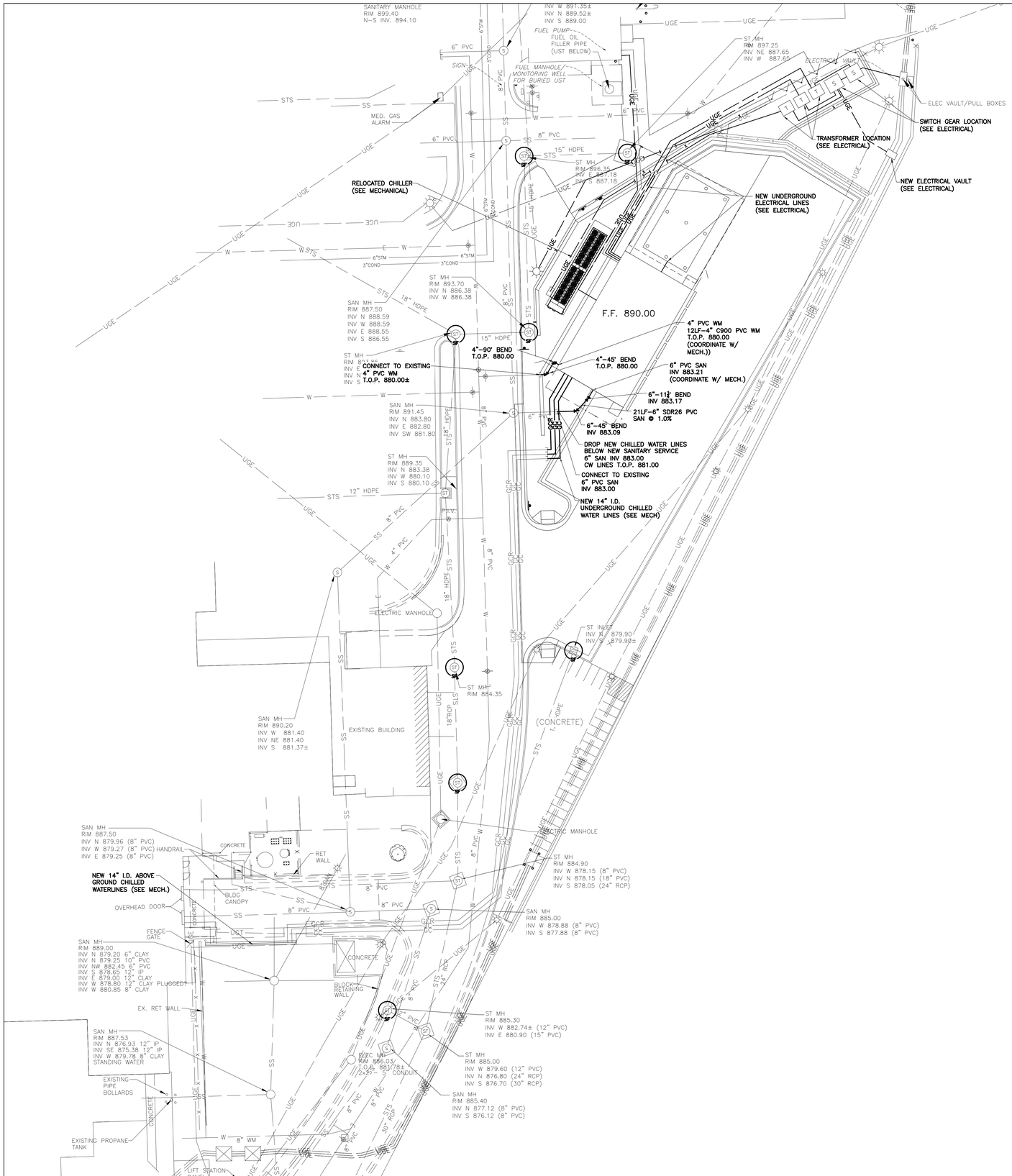
IMAGE GROUP INC., Architecture & Interiors
OBERMILLER NELSON ENGINEERING, Mechanical Engineers
MBN ENGINEERING, Civil & Electrical Engineers
SOLIEN & LARSON ENGINEERING, Structural Engineers

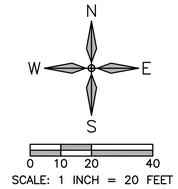
MBN ENGINEERING
MECHANICAL * ELECTRICAL * CIVIL
503 7th St N, SUITE 200
FARGO, ND 58102
PHONE: 701.478.6336
FAX: 701.478.6340

PROFESSIONAL ENGINEER
ANTHONY K. PEELER
PE-6864
DATE 12/18/15
NORTH DAKOTA

Drawing Title: DEMOLITION-UTILITY PLAN		Project Title: REPLACE CENTRAL CHILLER PLANT			Date: DECEMBER 18, 2015
					Scale: AS SHOWN
VA Project No. 437-14-111	Contract No. VA263-P-1217 VA263-C-	Designed By TE	Checked By TE	Drawn By TS	Drawing No. C2
Building No. 56	AutoCAD File Name 14-125 C2.dwg	Location FARGO VA HEALTH CARE SYSTEM FARGO, ND			Dwg. 3 of 26

Department of Veterans Affairs





SYMBOL LEGEND:

	EXISTING STORM INLET
	EXISTING STORM MANHOLE
	EXISTING SANITARY MANHOLE
	EXISTING MANHOLE
	EXISTING CURB STOP
	EXISTING GATE VALVE
	EXISTING LIGHT POLE
	EXISTING SIGN
	EXISTING TREE
SS	EXISTING SANITARY SEWER LINE
IRR	EXISTING IRRIGATION LINE
STS	EXISTING STORM SEWER LINE
W	EXISTING WATERMAIN LINE
CW	EXISTING CHILLED WATER LINE
UGE	EXISTING UNDERGROUND ELECTRIC LINE
6"STM	EXISTING 6" STEAM LINE
3"COND	EXISTING 3" CONDENSER LINE
STEAM	EXISTING STEAM LINE
COND	EXISTING CONDENSER LINE
FO	EXISTING UNDERGROUND FIBER OPTIC
GC / GCR	EXISTING CHILLED WATER LINE
X	EXISTING FENCE
	EXISTING HANDRAIL
X	NEW FENCE
W	NEW WATERMAIN LINE
S	NEW SANITARY SEWER LINE
ST	NEW STORM SEWER LINE
GCR / GC	NEW CHILLED WATER LINES (SEE MECHANICAL)
UGE	NEW UNDERGROUND ELECTRIC LINE (SEE ELECTRICAL)
	NEW INLET PROTECTION

PLAN NOTES:

1. CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. NORTH DAKOTA ONE CALL WILL ONLY LOCATE THEIR MAINS AND WILL NOT LOCATE PRIVATE UTILITIES ON THIS SITE. THE VA IS NOT RESPONSIBLE FOR LOCATING ANY ON SITE UTILITIES.
2. CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF ALL EXISTING/PROPOSED UTILITY CROSSINGS, AND WHERE EXISTING UTILITIES CONNECT INTO NEW UTILITY MAINS.
3. CONTRACTOR SHALL KEEP ACCESS OPEN TO ALL EXISTING DOORS, FIRE EXITS, AND LOADING DOCKS DURING ALL PHASES OF CONSTRUCTION. IF TEMPORARY CLOSURES ARE REQUIRED, COORDINATE WITH VA ADMINISTRATION A MINIMUM OF 2 WEEKS IN ADVANCE.
4. CONTRACTOR IS REQUIRED TO MAINTAIN ONE DRIVING LANE OPEN AT ALL TIMES. IF ROAD CLOSURE IS REQUIRED, COORDINATE WITH VA ADMINISTRATION A MINIMUM OF 2 WEEKS IN ADVANCE.
5. CONTRACTOR IS RESPONSIBLE FOR GENERAL TRAFFIC CONTROL TO ALLOW FOR PUBLIC ACCESS THROUGH THE PROJECT SITE. CONTRACTOR SHALL PROVIDE ADEQUATE SIGNS FOR PUBLIC SAFETY AND TRAFFIC CONTROL. CONTRACTOR IS RESPONSIBLE TO KEEP ACCESS TO THE EAST & NORTH LOADING DOCK OPEN FOR DAILY DELIVERIES & COORDINATE ANY RESTRICTIONS WITH THE VA ADMINISTRATION.
6. CONTRACTOR SHALL MAINTAIN 8.0' BURY DEPTH OVER ALL NEW WATERMAIN.
7. CONTRACTOR SHALL PROVIDE AND INSTALL ANY ADDITIONAL FITTINGS, PIPING, AND OFFSETS TO ACCOUNT FOR UTILITY LOCATIONS AND CROSSINGS NOT INDICATED ON THE PLANS.
8. ALL GRASSED AREAS DISTURBED BY CONSTRUCTION SHALL HAVE TOPSOIL (6" DEPTH), GRADED, SEEDED, AND HYDRO-MULCHED.

Revisions	Date

Dept. of Veterans Affairs
Health Care System
2101 Elm Street North
Fargo, ND 58102

IMAGE GROUP INC.
403 CENTER AVENUE, SUITE 300
MOORHEAD, MN 56560

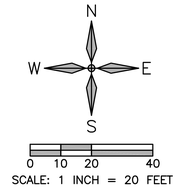
IMAGE GROUP INC., Architecture & Interiors
OBERMILLER NELSON ENGINEERING, Mechanical Engineers
MBN ENGINEERING, Civil & Electrical Engineers
SOLIEN & LARSON ENGINEERING, Structural Engineers

MBN ENGINEERING
MECHANICAL * ELECTRICAL * CIVIL
503 7th St N, SUITE 200
FARGO, ND 58102
PHONE: 701.478.8336
FAX: 701.478.8340

PROFESSIONAL ENGINEER
ANTHONY K. PEARCE
PE-6864
NORTH DAKOTA
DATE 12/18/15

Drawing Title: EROSION CONTROL/UTILITIES PLAN		Project Title: REPLACE CENTRAL CHILLER PLANT			Date: DECEMBER 18, 2015
					Scale: AS SHOWN
VA Project No. 437-14-111	Contract No. VA263-P-1217 / VA263-C-	Designed By TE	Checked By TE	Drawn By TS	Drawing No. C3
Building No. 56	AutoCAD File Name 14-125 C3.dwg	Location FARGO VA HEALTH CARE SYSTEM FARGO, ND			Dwg. 4 of 26

Department of Veterans Affairs



SYMBOL LEGEND:

	EXISTING STORM INLET
	EXISTING STORM MANHOLE
	EXISTING SANITARY MANHOLE
	EXISTING MANHOLE
	EXISTING CURB STOP
	EXISTING GATE VALVE
	EXISTING LIGHT POLE
	EXISTING SIGN
	EXISTING TREE
+886.66	EXISTING SPOT ELEVATION
X	EXISTING FENCE
	EXISTING HANDRAIL
X	NEW FENCE
900.00RIM	NEW RIM ELEVATION
900.00TP	NEW TOP OF PAVEMENT ELEVATION
900.00FG	NEW FINISHED GRADE ELEVATION
900.00G	NEW GUTTER ELEVATION
900.00TC	NEW TOP OF CURB ELEVATION
900.00SW	NEW SIDEWALK ELEVATION
M.E.	MATCH EXISTING ELEVATION
1.0%	NEW SLOPE & DIRECTION OF FLOW

PLAN NOTES:

1. CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. NORTH DAKOTA ONE CALL WILL ONLY LOCATE THEIR MAINS AND WILL NOT LOCATE PRIVATE UTILITIES ON THIS SITE. THE VA IS NOT RESPONSIBLE FOR LOCATING ANY ON SITE UTILITIES.
2. CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF ALL EXISTING/PROPOSED UTILITY CROSSINGS, AND WHERE EXISTING UTILITIES CONNECT INTO NEW UTILITY MAINS.
3. CONTRACTOR SHALL KEEP ACCESS OPEN TO ALL EXISTING DOORS, FIRE EXITS, AND LOADING DOCKS DURING ALL PHASES OF CONSTRUCTION. IF TEMPORARY CLOSURES ARE REQUIRED, COORDINATE WITH VA ADMINISTRATION A MINIMUM OF 2 WEEKS IN ADVANCE.
4. CONTRACTOR IS REQUIRED TO MAINTAIN ONE DRIVING LANE OPEN AT ALL TIMES. IF ROAD CLOSURE IS REQUIRED, COORDINATE WITH VA ADMINISTRATION A MINIMUM OF 2 WEEKS IN ADVANCE.
5. CONTRACTOR IS RESPONSIBLE FOR GENERAL TRAFFIC CONTROL TO ALLOW FOR PUBLIC ACCESS THROUGH THE PROJECT SITE. CONTRACTOR SHALL PROVIDE ADEQUATE SIGNS FOR PUBLIC SAFETY AND TRAFFIC CONTROL. CONTRACTOR IS RESPONSIBLE TO KEEP ACCESS TO THE EAST & NORTH LOADING DOCK OPEN FOR DAILY DELIVERIES & COORDINATE ANY RESTRICTIONS WITH THE VA ADMINISTRATION.
6. CONTRACTOR SHALL MAINTAIN 8.0' BURY DEPTH OVER ALL NEW WATERMAIN.
7. CONTRACTOR SHALL PROVIDE AND INSTALL ANY ADDITIONAL FITTINGS, PIPING, AND OFFSETS TO ACCOUNT FOR UTILITY LOCATIONS AND CROSSINGS NOT INDICATED ON THE PLANS.
8. ALL GRASSED AREAS DISTURBED BY CONSTRUCTION SHALL HAVE TOPSOIL (6" DEPTH), GRADED, SEEDED, AND HYDRO-MULCHED.

Revisions	Date

Dept. of Veterans Affairs
Health Care System
2101 Elm Street North
Fargo, ND 58102

IMAGE GROUP INC.
403 CENTER AVENUE, SUITE 300
MOORHEAD, MN 56560

IMAGE GROUP INC., Architecture & Interiors
OBERMILLER NELSON ENGINEERING, Mechanical Engineers
MBN ENGINEERING, Civil & Electrical Engineers
SOLIEN & LARSON ENGINEERING, Structural Engineers

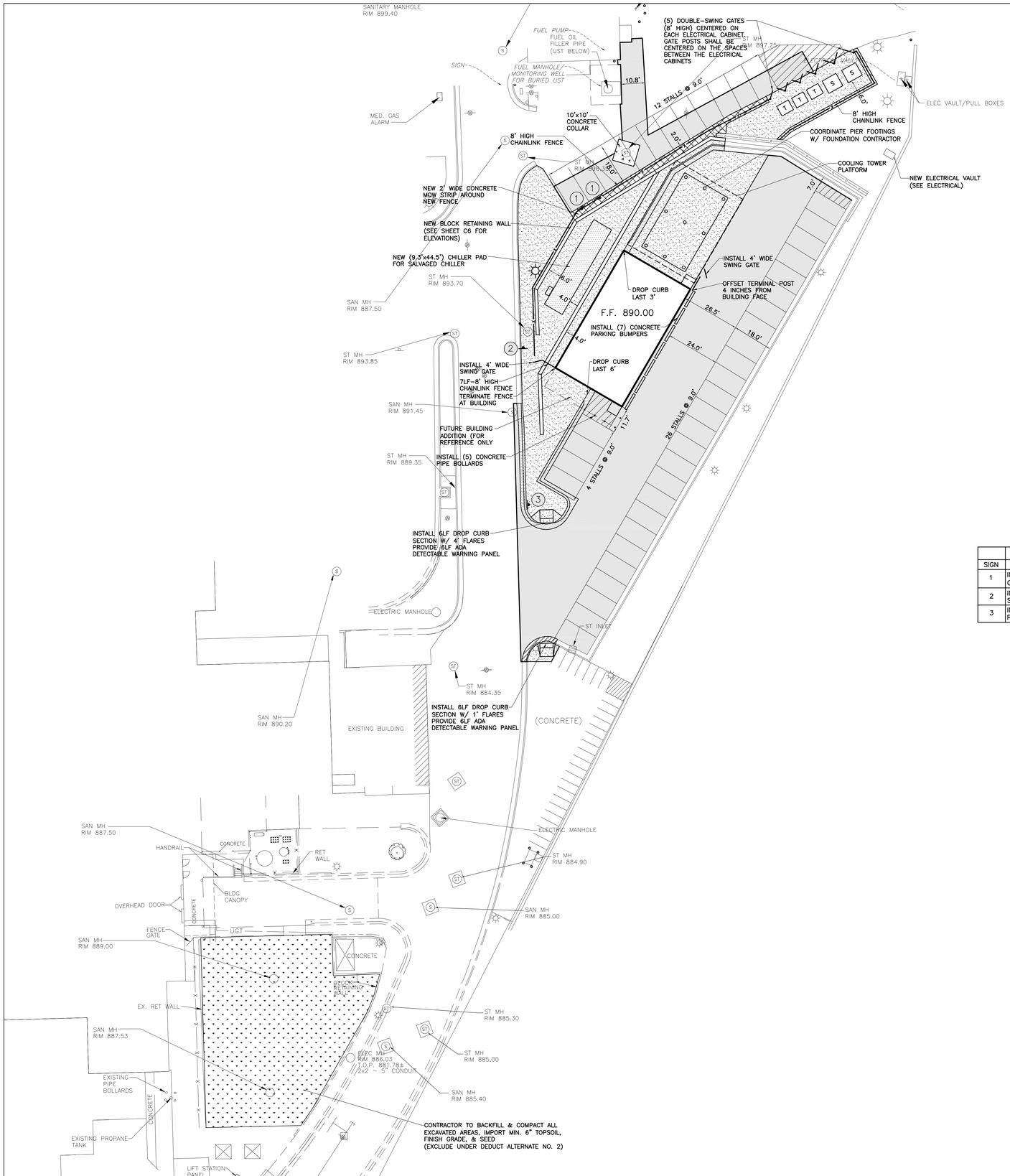
MBN ENGINEERING
MECHANICAL * ELECTRICAL * CIVIL
503 7th St N, SUITE 200
FARGO, ND 58102
PHONE: 701.478.6336
FAX: 701.478.5340

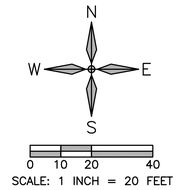
PROFESSIONAL ENGINEER
PATRICK W. K. BOSLEY
PE-6864
NORTH DAKOTA
DATE 12/18/15

Drawing Title	Project Title	Date
GRADING PLAN	REPLACE CENTRAL CHILLER PLANT	DECEMBER 18, 2015
		Scale: AS SHOWN

VA Project No.	Contract No.	Designed By	Checked By	Drawn By	Drawing No.
437-14-111	VA263-P-1217 VA263-C-	TE	TE	TS	C4
Building No. 56	AutoCAD File Name 14-125 C4.dwg	Location FARGO VA HEALTH CARE SYSTEM FARGO, ND			Dwg. 5 of 26

Department of Veterans Affairs





SYMBOL LEGEND:

- EXISTING STORM INLET
- EXISTING STORM MANHOLE
- EXISTING SANITARY MANHOLE
- EXISTING MANHOLE
- EXISTING CURB STOP
- EXISTING GATE VALVE
- EXISTING LIGHT POLE
- EXISTING SIGN
- EXISTING TREE
- EXISTING FENCE
- EXISTING HANDRAIL
- NEW FENCE
- NEW 4" REINFORCED CONCRETE SIDEWALK
- NEW 6" REINFORCED CONCRETE PAVEMENT
- NEW 6" ASPHALT PAVEMENT
- NEW 12" REINFORCED CONCRETE PAVEMENT
- NEW TYPE 1 MOUNTABLE CONCRETE CURB & GUTTER
- NEW TYPE 2 MOUNTABLE CONCRETE CURB & GUTTER
- NEW 2' WIDE MOW STRIP
- NEW GRASS
- SCHEDULE ITEM NUMBER

	SIGN SCHEDULE
SIGN	DESCRIPTION OF SIGN
1	INSTALL SALVAGED "RIDE SHARE VAN POOL PARKING ONLY" SIGN. ATTACH TO NEW CHAINLINK FENCE
2	INSTALL SALVAGED "NO PARKING ANY TIME" SIGN. PROVIDE NEW POST AND HARDWARE
3	INSTALL SALVAGED STOP SIGN. PROVIDE NEW POST AND HARDWARE

PLAN NOTES:

1. CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. NORTH DAKOTA ONE CALL WILL ONLY LOCATE THEIR MAINS AND WILL NOT LOCATE PRIVATE UTILITIES ON THIS SITE. THE VA IS NOT RESPONSIBLE FOR LOCATING ANY ON SITE UTILITIES.
2. CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF ALL EXISTING/PROPOSED UTILITY CROSSINGS, AND WHERE EXISTING UTILITIES CONNECT INTO NEW UTILITY MAINS.
3. CONTRACTOR SHALL KEEP ACCESS OPEN TO ALL EXISTING DOORS, FIRE EXITS, AND LOADING DOCKS DURING ALL PHASES OF CONSTRUCTION. IF TEMPORARY CLOSURES ARE REQUIRED, COORDINATE WITH VA ADMINISTRATION A MINIMUM OF 2 WEEKS IN ADVANCE.
4. CONTRACTOR IS REQUIRED TO MAINTAIN ONE DRIVING LANE OPEN AT ALL TIMES. IF ROAD CLOSURE IS REQUIRED, COORDINATE WITH VA ADMINISTRATION A MINIMUM OF 2 WEEKS IN ADVANCE.
5. CONTRACTOR IS RESPONSIBLE FOR GENERAL TRAFFIC CONTROL TO ALLOW FOR PUBLIC ACCESS THROUGH THE PROJECT SITE. CONTRACTOR SHALL PROVIDE ADEQUATE SIGNS FOR PUBLIC SAFETY AND TRAFFIC CONTROL. CONTRACTOR IS RESPONSIBLE TO KEEP ACCESS TO THE EAST & NORTH LOADING DOCK OPEN FOR DAILY DELIVERIES & COORDINATE ANY RESTRICTIONS WITH THE VA ADMINISTRATION.
6. CONTRACTOR SHALL MAINTAIN 8.0' BURY DEPTH OVER ALL NEW WATERMAIN.
7. CONTRACTOR SHALL PROVIDE AND INSTALL ANY ADDITIONAL FITTINGS, PIPING, AND OFFSETS TO ACCOUNT FOR UTILITY LOCATIONS AND CROSSINGS NOT INDICATED ON THE PLANS.
8. ALL GRASSED AREAS DISTURBED BY CONSTRUCTION SHALL HAVE TOPSOIL (6" DEPTH), GRADED, SEEDED, AND HYDRO-MULCHED.

PARKING COUNT:

PARKING STALLS REMOVED:	55 STALLS
NEW PARKING ADDED:	42 STALLS
NET LOSS:	13 STALLS

Revisions	Date

Dept. of Veterans Affairs
Health Care System
2101 Elm Street North
Fargo, ND 58102

IMAGE GROUP
IMAGE GROUP INC.
403 CENTER AVENUE, SUITE 300
MOORHEAD, MN 56560

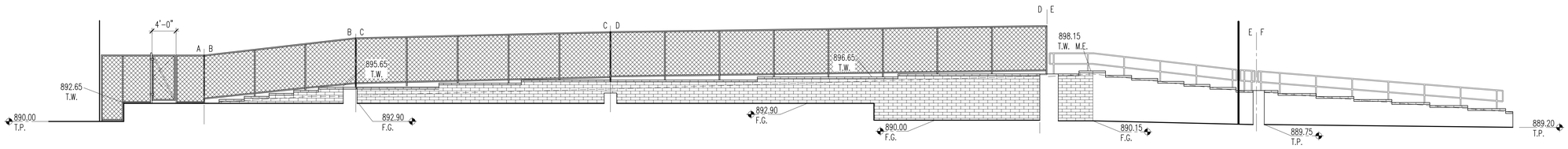
IMAGE GROUP INC., Architecture & Interiors
OBERMILLER NELSON ENGINEERING, Mechanical Engineers
MBN ENGINEERING, Civil & Electrical Engineers
SOLIEN & LARSON ENGINEERING, Structural Engineers

MBN ENGINEERING
MECHANICAL * ELECTRICAL * CIVIL
503 7th St N, SUITE 200
FARGO, ND 58102
PHONE: 701.478.6336
FAX: 701.478.5340

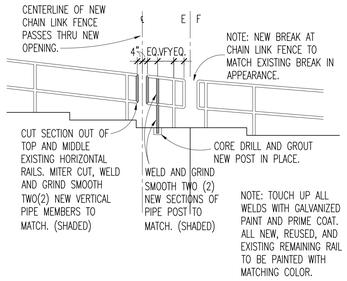
PROFESSIONAL ENGINEER
ANTHONY K. PETERSON
PE-6864
NORTH DAKOTA
DATE 12/18/15

Drawing Title: PAVING PLAN		Project Title: REPLACE CENTRAL CHILLER PLANT			Date: DECEMBER 18, 2015
					Scale: AS SHOWN
VA Project No.: 437-14-111	Contract No.: VA263-P-1217 / VA263-C-	Designed By: TE	Checked By: TE	Drawn By: TS	Drawing No.: C5
Building No.: 56	AutoCAD File Name: 14-125 C5.dwg	Location: FARGO VA HEALTH CARE SYSTEM FARGO, ND			Dwg. 6 of 26

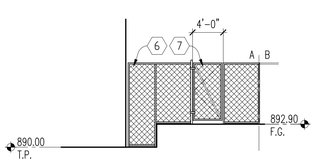
Department of Veterans Affairs



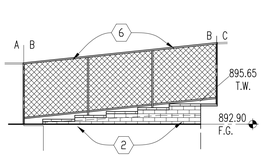
1 C6 OVERALL ELEVATION
1/8"=1'-0"



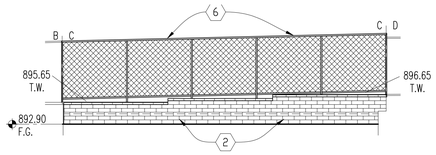
2 C6 DETAIL AT RAIL INTERSECTION WITH NEW CHAIN LINK FENCE
1/4"=1'-0"



A C6 ELEVATION
1/8"=1'-0"



B C6 ELEVATION
1/8"=1'-0"



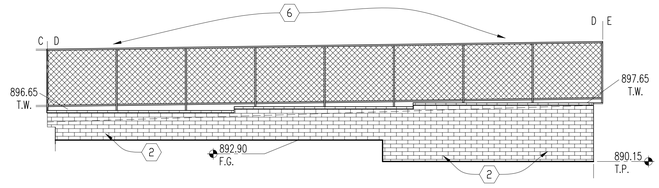
C C6 ELEVATION
1/8"=1'-0"

BUILDING ELEVATION NOTES:

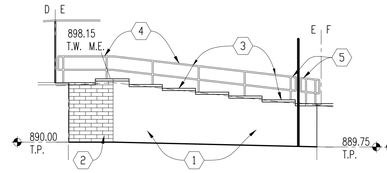
GENERAL

1. THE RETAINING WALL AND FENCE ELEVATIONS AS SHOWN ARE FOR GENERAL DESIGN INTENT ONLY. THE RETAINING WALL SHALL BE CONSTRUCTED ACCORDING TO SEGMENTED WALL ENGINEERS DESIGN PER SECTION 323223 OF THE SPECIFICATIONS, TO CONFORM TO EXISTING GRADES AND SOIL CONDITIONS.
2. THE CHAIN LINK FENCE SHALL BE DESIGNED AND INSTALLED BY THE CHAIN LINK FENCE SUPPLIER PER SPECIFICATION SECTION 323113, TO CONFORM TO GRADES AND SITE CONDITIONS.

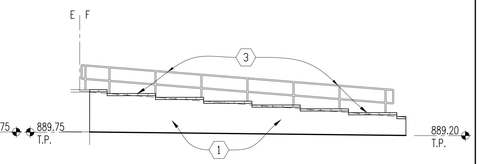
1. APPROXIMATELY 80 LINEAL FEET OF EXISTING SEGMENTAL RETAINING WALL TO REMAIN. REMAINDER TO BE REMOVED AND STOCKPILED FOR REUSE IN CONSTRUCTION OF NEW RETAINING WALL.
2. NEW SEGMENTAL RETAINING WALL TO MATCH EXISTING. UNITS FROM DEMOLITION MAY BE REUSED IF IN SATISFACTORY CONDITION. VERIFY AND MATCH EXISTING COURSING.
3. APPROXIMATELY 60 LINEAL FEET OF EXISTING STEEL PIPE GUARD RAIL, CONCRETE MAINTENANCE BORDER STRIP AND LANDSCAPE ROCK TO REMAIN. PAINT EXISTING RAILING.
4. NEW SECTION OF STEEL PIPE GUARD RAIL TO MATCH EXISTING. (CONTRACTOR'S OPTION TO SALVAGE AND REUSE GUARD RAIL MATERIAL FROM DEMOLITION). SET IN CONCRETE FILLED POST HOLES. POUR CONCRETE MAINTENANCE/BORDER STRIP TO MATCH EXISTING BENEATH GUARDRAIL. PAINT ALL RAILING WHETHER NEW OR REUSED.
5. REMODEL EXISTING STEEL PIPE GUARDRAIL TO ALLOW FOR CHAINLINK SECURITY FENCE TO CROSS THROUGH GUARDRAIL. SEE DETAIL 2/C6
6. NEW 8'-0" HIGH CHAIN LINK SECURITY FENCE WITH STEEL PIPE TOP AND BOTTOM RAILS. SET POSTS IN CONCRETE FILLED POST HOLES. POUR CONCRETE MAINTENANCE/BORDER STRIP TO MATCH EXISTING BENEATH FENCE.
7. NEW GATE WITH PLUNGER AND KEEPER SET IN CONCRETE AND FITTED WITH PADLOCK CASE WITH FARGO BEST SYSTEM 7 PIN CORE.



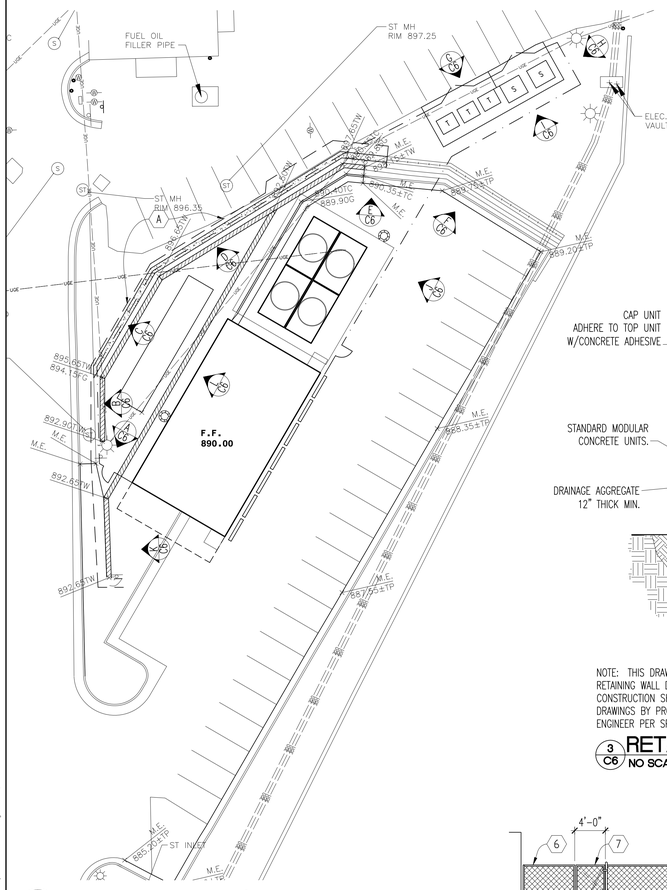
D C6 ELEVATION
1/8"=1'-0"



E C6 ELEVATION
1/8"=1'-0"



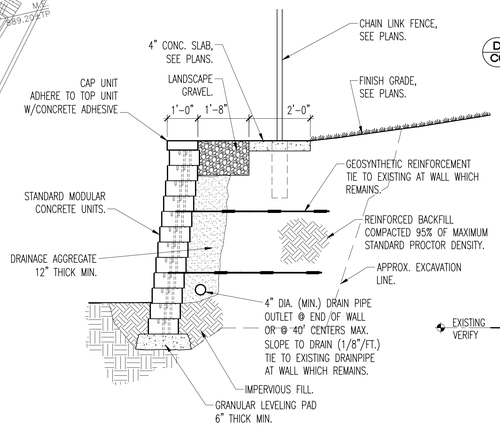
F C6 ELEVATION
1/8"=1'-0"



RETAINING WALL/FENCE ELEV. KEY PLAN
1"=20'-0"

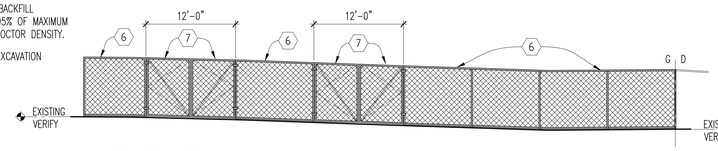
GENERAL

1. SEE SITE DEMOLITION FOR RELATED DEMOLITION.
2. SEE SITE GRADING SHEET FOR SURROUNDING FINISH GRADES.
3. SEE SITE PAVING SHEET FOR RELATED PAVING.
4. SEE SITE UTILITY SHEET FOR RELATED UTILITY WORK.
5. SEGMENTED RETAINING WALL DESIGNER/SUPPLIER/INSTALLER, SPECIFIED UNDER SECTION 32 32 23, SHALL VERIFY AND COORDINATE EXCAVATION AND INSTALLATION WITH UNDERGROUND UTILITIES AND OTHER SITE CONDITIONS IMPACTED BY RETAINING WALL WORK.

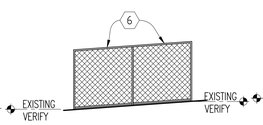


NOTE: THIS DRAWING IS PRESENTED AS A GENERAL RETAINING WALL DIAGRAM. ACTUAL DESIGN AND CONSTRUCTION SHALL BE PER P.E. STAMPED SHOP DRAWINGS BY PROFESSIONAL RETAINING WALL DESIGN ENGINEER PER SPECIFICATION SECTION 32 32 23.

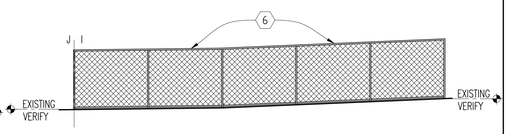
3 C6 RETAINING WALL SECTION
NO SCALE



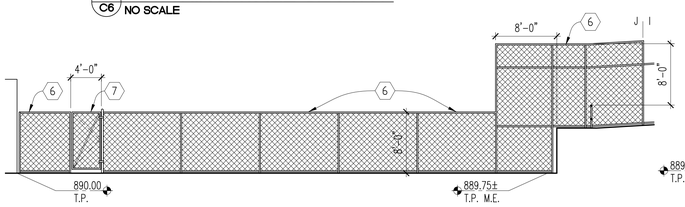
G C6 ELEVATION
1/8"=1'-0"



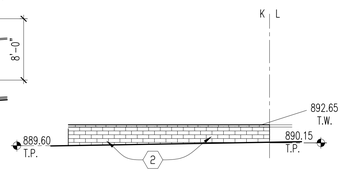
H C6 ELEVATION
1/8"=1'-0"



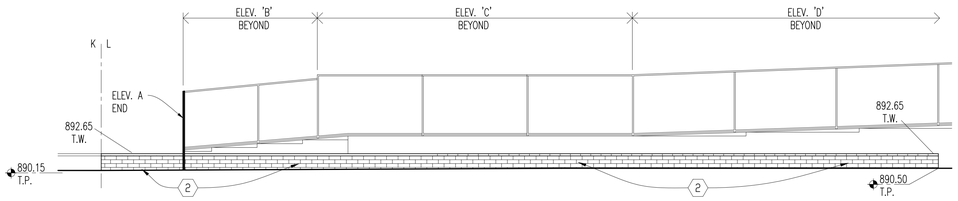
I C6 ELEVATION
1/8"=1'-0"



J C6 ELEVATION
1/8"=1'-0"



K C6 ELEVATION
1/8"=1'-0"



L C6 ELEVATION
1/8"=1'-0"

Revisions	Date

Dept. of Veterans Affairs
Health Care System
2101 Elm Street North
Fargo, ND 58102

IMAGE GROUP
IMAGE GROUP INC.
403 CENTER AVENUE, SUITE 300
MOORHEAD, MN 56560

IMAGE GROUP INC., Architecture & Interiors
OBERMILLER NELSON ENGINEERING, Mechanical Engineers
MBN ENGINEERING, Civil & Electrical Engineers
SOLEN & LARSON ENGINEERING, Structural Engineers

I hereby certify that this plan specification, or report was prepared by me or under my direct supervision, and that I am duly Registered Architect under the laws of the State of North Dakota.
Date 12/18/2015 Reg. No. 378

Drawing Title: RETAINING WALL AND FENCE ELEVATIONS		Project Title: REPLACE CENTRAL CHILLER PLANT		Date: DECEMBER 18, 2015
				Scale: AS SHOWN
VA Project No. 437-14-111	Contract No. VA263-P-1217 VA263-C-	Designed By RM	Checked By RM	Drawn By MO
Building No. 56	AutoCAD File Name Fence Elevations.dwg	Location FARGO VA HEALTH CARE SYSTEM FARGO, ND		Drawing No. C6 Dwg 7 of 26

Department of Veterans Affairs

E:\Server Project Data\1304_Fargo_VA_Health_Care_System\09_Replace_Chiller_Plant\QAQD_Dwgs\Plot\Fence Elevations.dwg Dec 21, 2015 - 9:14am

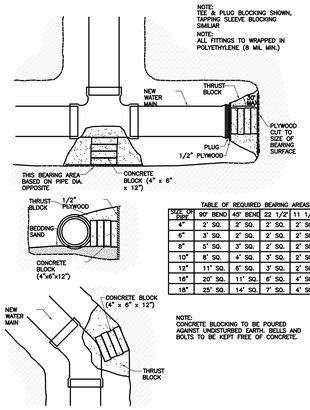
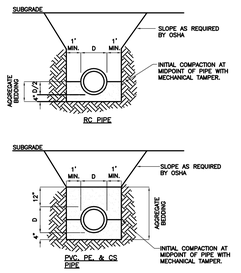


TABLE OF REQUIRED BEARING AREAS

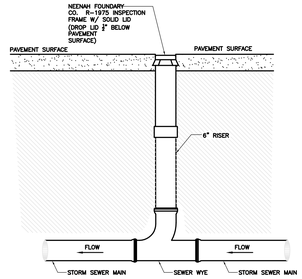
WATER PIPE DIA.	90° BEND	45° BEND	22 1/2°	11 1/4°	TEE
4"	2' SQ.	2' SQ.	2' SQ.	2' SQ.	2' SQ.
6"	3' SQ.	2' SQ.	2' SQ.	2' SQ.	3' SQ.
8"	5' SQ.	3' SQ.	2' SQ.	2' SQ.	4' SQ.
10"	8' SQ.	4' SQ.	3' SQ.	2' SQ.	6' SQ.
12"	11' SQ.	6' SQ.	3' SQ.	2' SQ.	8' SQ.
16"	20' SQ.	11' SQ.	6' SQ.	4' SQ.	15' SQ.
18"	25' SQ.	14' SQ.	7' SQ.	4' SQ.	18' SQ.

NOTE:
CONCRETE BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH. BELLS AND BOLTS TO BE KEPT FREE OF CONCRETE.

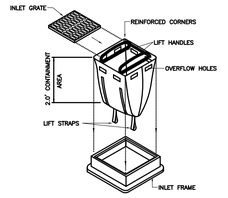
1 / C7 WATER MAIN THRUST BLOCKING DETAIL
NOT-TO-SCALE



2 / C7 AGGREGATE BEDDING DETAIL
NOT-TO-SCALE



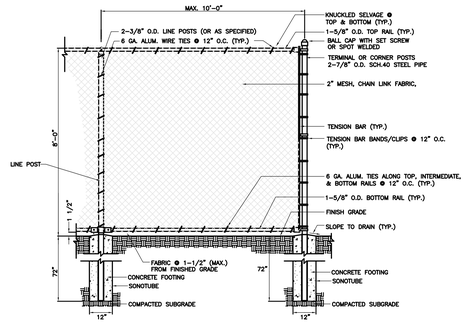
3 / C7 SANITARY SEWER CLEANOUT STANDARD DETAIL
NOT-TO-SCALE



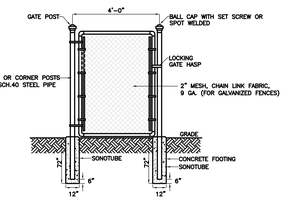
INSTALLATION:
- REMOVE THE INLET GRATE.
- STAND THE GRATE UPRIGHT. INSTALL THE GRATE BETWEEN THE LIFT STRAPS.
- PLACE THE BAG IN THE INLET & LOWER THE BAG AND GRATE USING THE LIFT STRAPS.

MAINTENANCE:
- CHECK BAG REGULARLY & AFTER RAIN EVENTS. IF THE BAG IS FILLED WITH 1/3 OF ITS CAPACITY WITH SEDIMENT, EMPTY THE BAG.
- REMOVE DEBRIS AROUND THE INLET GRATE PRIOR TO REMOVING BAG.
- USE THE LIFT HANDLES TO REMOVE THE BAG AND USE THE LIFT STRAPS ON THE BOTTOM TO EMPTY BAG.

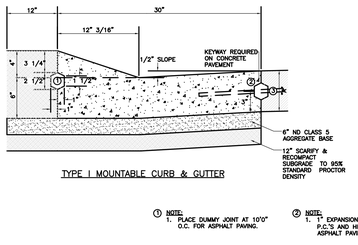
4 / C7 INLET PROTECTION DETAIL
NOT-TO-SCALE



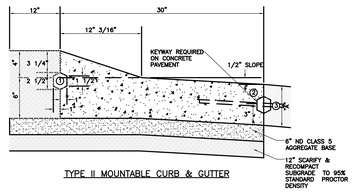
5 / C7 8' HIGH CHAIN LINK FENCE
NOT-TO-SCALE



6 / C7 PEDSTRIAN GATE DETAIL
NOT-TO-SCALE



TYPE I MOUNTABLE CURB & GUTTER



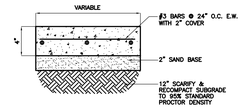
TYPE II MOUNTABLE CURB & GUTTER

① NOTE:
1. PLACE DUMMY JOINT AT 10'0" O.C. FOR ASPHALT PAVING.

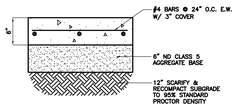
② NOTE:
1. 1" EXPANSION JOINTS PLACED AT P.C.'S AND HIGH POINTS FOR ASPHALT PAVING.

③ NOTE:
1. DIMENSION "A" SHALL MATCH THE THICKNESS OF THE ADJOINING PAVEMENT WITH EITHER INTEGRAL OR SEPARATE CURB

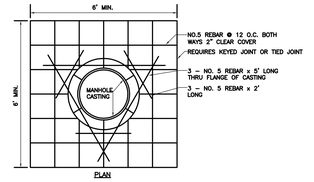
7 / C7 (TYPE I OR TYPE II) MOUNTABLE CONCRETE CURB AND GUTTER DETAIL
NOT-TO-SCALE



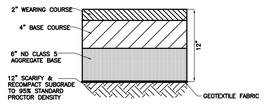
8 / C7 4" REINFORCED CONCRETE SIDEWALK DETAIL
NOT-TO-SCALE



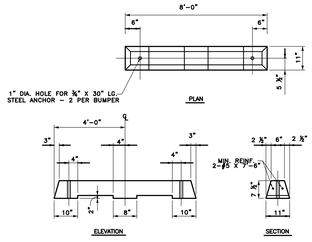
9 / C7 6" REINFORCED CONCRETE PAVEMENT DETAIL
NOT-TO-SCALE



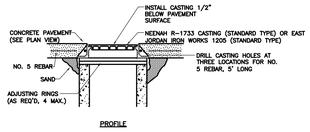
PLAN



10 / C7 6" ASPHALT PAVEMENT DETAIL
NOT-TO-SCALE

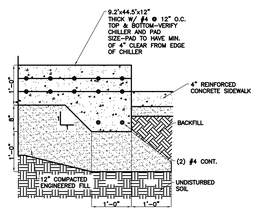


11 / C7 CONCRETE PARKING BUMPER DETAIL
NOT-TO-SCALE

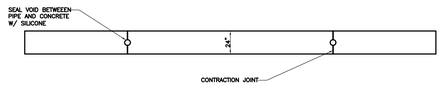


PROFILE

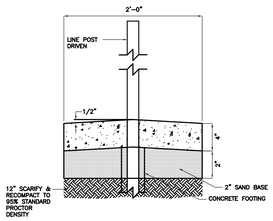
12 / C7 TYPICAL MANHOLE COLLAR DETAIL
NOT-TO-SCALE



13 / C7 12" REINFORCED CONCRETE PAVEMENT DETAIL
NOT-TO-SCALE

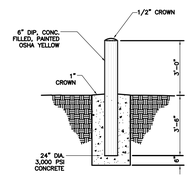


PLAN VIEW



SECTION VIEW

14 / C7 2' WIDE CONCRETE MOW STRIP DETAIL
NOT-TO-SCALE



15 / C7 CONCRETE PIPE BOLLARD DETAIL
NOT-TO-SCALE

Revisions	Date

Dept. of Veterans Affairs
Health Care System
2101 Elm Street North
Fargo, ND 58102

IMAGE GROUP
IMAGE GROUP INC.
403 CENTER AVENUE, SUITE 300
MOORHEAD, MN 56560

IMAGE GROUP INC., Architecture & Interiors
OBERMILLER NELSON ENGINEERING, Mechanical Engineers
MBN ENGINEERING, Civil & Electrical Engineers
SOLIEN & LARSON ENGINEERING, Structural Engineers

MBN ENGINEERING
MECHANICAL * ELECTRICAL * CIVIL
503 7th St N, SUITE 200
FARGO, ND 58102
PHONE: 701.478.6336
FAX: 701.478.6340

PROFESSIONAL ENGINEER ANTHONY K. SELLE PE-6864 DATE 12/18/15 NORTH DAKOTA

Drawing Title	Project Title	Date
DETAILS	REPLACE CENTRAL CHILLER PLANT	DECEMBER 18, 2015
		Scale: AS SHOWN

VA Project No.	Contract No.	Designed By	Checked By	Drawn By	Drawing No.
437-14-111	VA263-P-1217 / VA263-C-	TE	TE	TS	C7
Building No. 56	AutoCAD File Name 14-125 C7.dwg	Location FARGO VA HEALTH CARE SYSTEM FARGO, ND			Dwg. 8 of 26

Department of Veterans Affairs