

Holiday Inn EXPRESS[®]

HOTEL & SUITES

KINGS GRANT

CONCORD, NC

HABITAT ARCHITECTURAL GROUP, P.A.
705 ROYAL COURT, SUITE 101

ARCHITECT
CHARLOTTE, NC 28202

BIC ENGINEERING
P.O. BOX 1455

STRUCTURAL ENGINEER
DAVIDSON, NC

INTEGRATED ENGINEERING
3141-A-AMITY CT.

PLUMBING ENGINEER
CHARLOTTE, NC 28215

INTEGRATED ENGINEERING
3141-A-AMITY CT.

MECHANICAL ENGINEER
CHARLOTTE, NC 28215

STEVE HOCSAK AND ASSOCIATES
6407 IDEWILD ROAD

ELECTRICAL ENGINEER
CHARLOTTE, NC 28212

GEOSCIENCE GROUP, INC.
500-K CLANTON ROAD

CIVIL ENGINEER
CHARLOTTE, NC 28217

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**APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS**
(Reproduce the following data on the building plans sheet 1 or 2)

REPRINTED FROM VOLUME IA
(Any proposed code change to this Appendix must be proposed to Volume IA for consideration)

Name of Project: Holiday Inn Express Inn & Suites
Address: Kings Grant Lot #25, Gateway Drive West SW
Proposed Use: Hotel
Contact Person: Greg Gill Phone# (704)-338-9948
Code Enforcement Jurisdiction: Concord, NC Building Code

DESIGNER OF RECORD	NAME	LICENSE #	TELEPHONE#
Architectural	Greg B. Gill	#4792	(704)-338-9948
Electrical	Steve Hocsak	#02673	(704)-567-9772
Plumbing	M.M. Schon	#11982	(704)-537-2230
Mechanical	M.M. Schon	#11982	(704)-537-2230
Structural	Dave Bickley	#20064	(704)-862-4114
Sprinkler-Standpipe	M.M. Schon	#11982	(704)-537-2230
Fire Alarm	Steve Hocsak	#02673	(704)-567-9772
Civil	KEVIN CALDWELL	#10725	(704)-525-2003

BUILDING DATA
Occupancy: Assembly Business Educational
 Mercantile Hazardous Factory-Industrial
 Institutional (unrestrained) Institutional (restrained) Use Condition
 Residential (R1) Storage

Mixed Occupancy? Yes No Separation: _____
Construction Type? I II III IV(P) IV(UP)
V(P) V(UP) VI(P) VI(UP)

Sprinkled? Yes No Type: _____
Fire District? Yes No (13) (3R 130) Separation: _____
Building Height: Truss Bearing @ 35'-6" 4 Number of Stories
Mezzanine: Yes No
High Rise? Yes No

Gross Building Area	(Foot Print)	Floor	(Foot Print)
Floor	Sq. Ft.		Sq. Ft.
Basement	---	4th	10,535
1st Floor	10,535	5th	---
2nd Floor	10,535	6th	---
3rd Floor	10,535	7th	---
		Total Gross Area:	42,483 sq. ft.

Area increase? Yes No Yes: code reference
If yes, calculations: _____

FIRE RESISTANCE RATINGS	Required Hourly	Detail# & Sheet#	% Wall Opening	Design No. for Roted Assemblies
Party/Firewalls:				
Exterior Bearing Walls:				
North	1 Hr.	W8/A5.7	5%	UL#J913
East	1 Hr.	W8/A5.7 & W1/A5.7	25%	UL#J472 & U913
West	1 Hr.	W1/A5.7	5%	UL#J472
South	1 Hr.	W8/A5.7 & W1/A5.7	13%	UL#J472 & U913
Exterior Non-Bearing Walls:				
North	---	---	---	---
East	---	---	---	---
West	---	---	---	---
South	---	---	---	---
Party/Firewalls:				
Bearing	1 Hr.	W36W/A5.7	---	UL#J910 & J465
Non-Bearing	1 Hr.	W4/A5.7	---	UL#J465
Tenant Separation				
Ceiling-Floors Assembly	1 Hr.	1/5.7.1	---	UL#J900H
Beams	2 Hr.	1/A5.7.1	---	UL#J501
Columns	1 Hr.	1/A5.7.1	---	UL#X526
Vertical Shafts	2 Hr.	W5/A5.7	---	UL#J438
Chases-P.E.M.	2 Hr.	W5/A5.7	---	UL#J438
Roof Assembly	1 Hr.	1/A5.7.1	---	GA.#RC2601 #CS406
Mixed Occupancy/Separation	N/A	---	---	---

**HOLIDAY INN & SUITES EXPRESS
PROJECT DATA**

PROJECT NAME: CONCORD HOLIDAY INN EXPRESS AND SUITES
LOCATION: GATEWAY WEST DRIVE SW CONCORD, NC
OWNER: SAM PATEL
ADDRESS: C/O HOLIDAY INN EXPRESS 6919 CHATFORD LANE CHARLOTTE, NC 28210
PHONE #: (704) 554-6693
FAX #: (704) 554-7971
ARCHITECT: MR GREG GILL
ADDRESS: HABITAT ARCHITECTURAL GROUP 705 ROYAL COURT, SUITE 101 CHARLOTTE, N.C. 28202
PHONE #: (704) 338-9948
FAX #: (704) 338-9949

SITE DATA:

ZONING: SEE CIVIL
SITE AREA: 1.794 ACRES
SIGNAGE: ALL SIGNS WILL CONFORM TO CITY/COUNTY ZONING ORDINANCE REQUIREMENTS
SCREENING: ALL BUFFERING AND SCREENING WILL CONFORM TO CITY/COUNTY ZONING ORDINANCE REQUIREMENTS

PORTE COCHERE: YES
SWIMMING POOL: YES
ENCLOSED DUMPSTER: YES

PARKING SPACES:

STANDARD SPACES: 92
H'CAP SPACES: 5
TOTAL SPACES: 97

BUILDING DATA:

BUILDING CODE: NC STATE BUILDING CODE, 1996 ED
BUILDING TYPE: TYPE V, 4 STORY
BUILDING AREA: 42,493 TOTAL SQ. FT. (1ST, 2ND, 3RD, & 4TH)

GUEST ROOMS:

QUEEN / QUEEN: 36 UNITS
KING SUITE: 19 UNITS
KING JACUZZI: 6 UNITS
H'CAP: 4 UNITS
H'CAP - ROLL-IN: 1 UNITS
KING UNIT: 4 UNITS
LUXURY KING: 9 UNITS
TOTAL ROOMS: 79 UNITS

LIFE SAFETY SYSTEM:
Emergency Lighting and Exit Signs: Yes No
Fire Alarm and Smoke Detection Systems: Yes No
Panic Hardware: Yes No

LIFE SAFETY SYSTEM:
Dead end limit-maximum condition: 20 Feet Max
Travel distance to exit-maximum condition: 250 Feet
Number exits: 2
Total Square footage of floor 10,888 divided by net/sq. ft. per occupancy 200 = 54 Total number of people on floor. 2 PEOPLE/ROOM
Number of doors provided 2 number of doors required 2

DESIGN LOADS:
Roof live load: 20 psf. (SNOW)
Wind: Zone 80 mph Importance Factor 1.0
Volume 1 ASCE-7 X
Section 1605 Exposure B

Floor: 40 PSF ROOMS/ 80 PSF CORRIDORS
Snow: 10 psf
Seismic: A_s 10 A_v 10 Importance Factor 1.0
Lateral design control: (Wind, Seismic, Other) SEISMIC CONTROLS
Method of Resistance: (i.e. Braced Frame/Moment Frame/Shear Walls) MOMENT FRAME AND SHEAR WALLS

SOIL BEARING CAPACITIES

Field Test (provided copy of test report) 2000 psf.
Presumptive Bearing capacity: N/A psf.
Pile size, type and capacity: N/A
Snow: 10 psf.
Lateral design Control: Earthquake X Wind (SEE ABOVE)
Calculated Wind Base Shears (for MWFRS): V_x = 177 KIPS
V_y = 63 KIPS
SEISMIC PERFORMANCE CATEGORY A
Compliance with Section 1607.3.6.1.1 Ties and Continuity?
SEISMIC PERFORMANCE CATEGORY B & C
Provide the following Seismic Design Parameters:
Effective peak velocity-related acceleration: A_v = 10
Peak acceleration coefficient: A_s = 10
Seismic Hazard Exposure Group: SHEG = C
Seismic Performance Group: SPC = C
Site Coefficient: S = 1.0

Basic structural system (check one):
--- Bearing wall --- X Dual w/ Special Moment Frame
--- Building frame --- Dual w/ Intermediate R/C or Special Steel
--- Moment frame --- Inverted Pendulum
Response modification factor: R_x = 3 1/2
R_y = 8
Deflection amplification factor: C_d = 3
Building Height limit, feet: H = NO LIMIT
Seismic base shear: V_s = 279 KIPS
MODAL ANALYSIS PROCEDURE: V_y = 102 KIPS
Modal base shear: V_i = ---
ELF procedure base shear: V = 279 K / 102 K
Architectural, Mechanical, Components anchored per force Coeff. CHECK W/ A&M

HABITAT ARCHITECTURAL GROUP, P.A.
Architecture
Planning
Interiors

705 Royal Court
Suite 101
Charlotte, NC 28202
Phone(704) 338-9948
Fax(704) 338-9949

CONCORD HOLIDAY INN & SUITES EXPRESS
King's Grant
Concord, NC

PROJ. NO. H98-041
DATE 10/30/98
DRAWN BY SPO
CHECKED BY GBG
REVISIONS

REGISTRY OF PROFESSIONAL ENGINEERS
4792
GREG GILL
ARCHITECT
705 ROYAL COURT, SUITE 101
CHARLOTTE, NC 28202

COVER SHEET

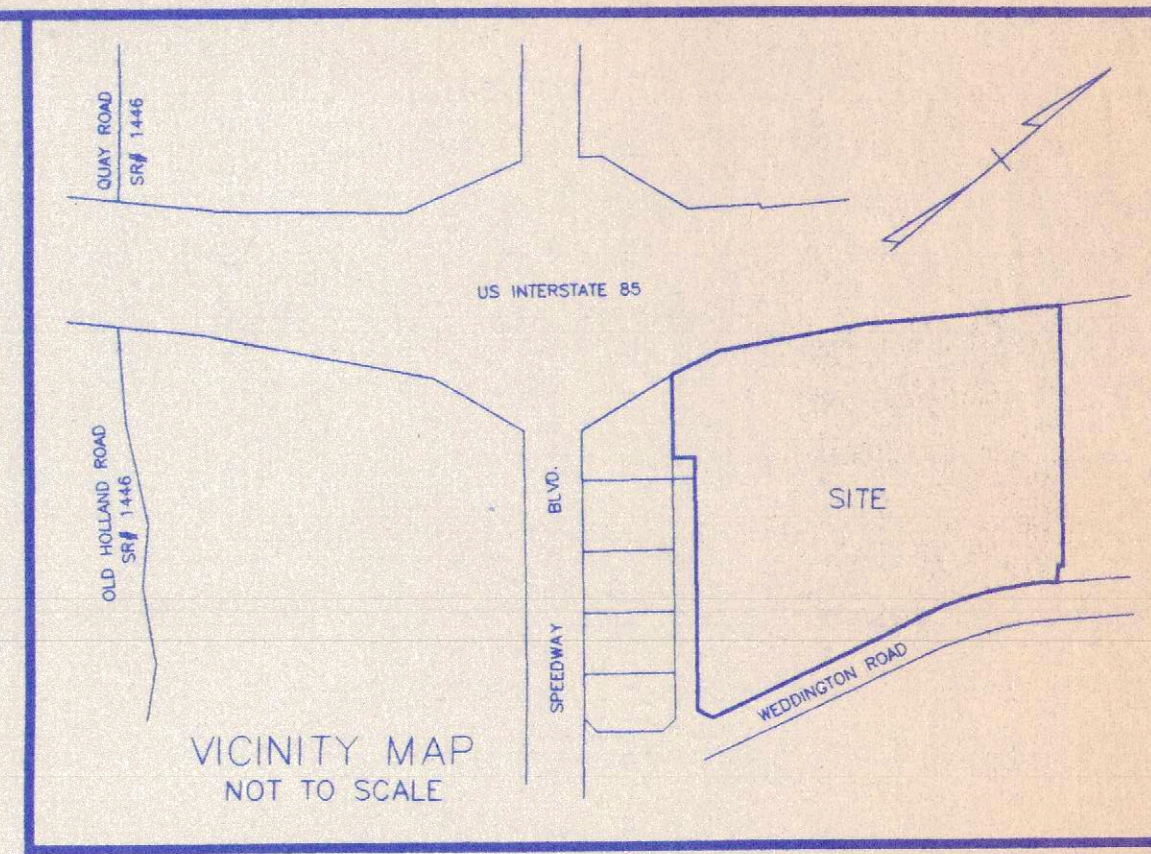
HABITAT ARCHITECTURAL GROUP, P.A.
REGISTRY OF PROFESSIONAL ARCHITECTS
4792
GREG GILL
ARCHITECT
705 ROYAL COURT, SUITE 101
CHARLOTTE, NC 28202

CS.1
OF

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1 (TOTAL)	11628.16	344.68	277.80	343.64	N 34°40'34" E	0°24'43"
C2	11628.16	204.80	162.40	204.80	N 35°30'09" E	0°10'03"
C3	11628.16	333.44	151.74	333.44	N 34°15'02" E	0°19'22"
C4	11628.16	33.82	16.91	33.82	N 33°26'11" E	0°07'00"
C5	11628.16	1.80	0.80	1.80	N 33°19'57" E	0°03'28"
C6	1004.83	15.11	7.56	15.11	S 34°42'41" W	0°33'41"
C7	1004.83	388.73	292.02	388.73	S 23°07'23" W	2°24'00"
C8	1004.83	578.09	191.31	578.07	N 24°33'08" E	2°13'28"

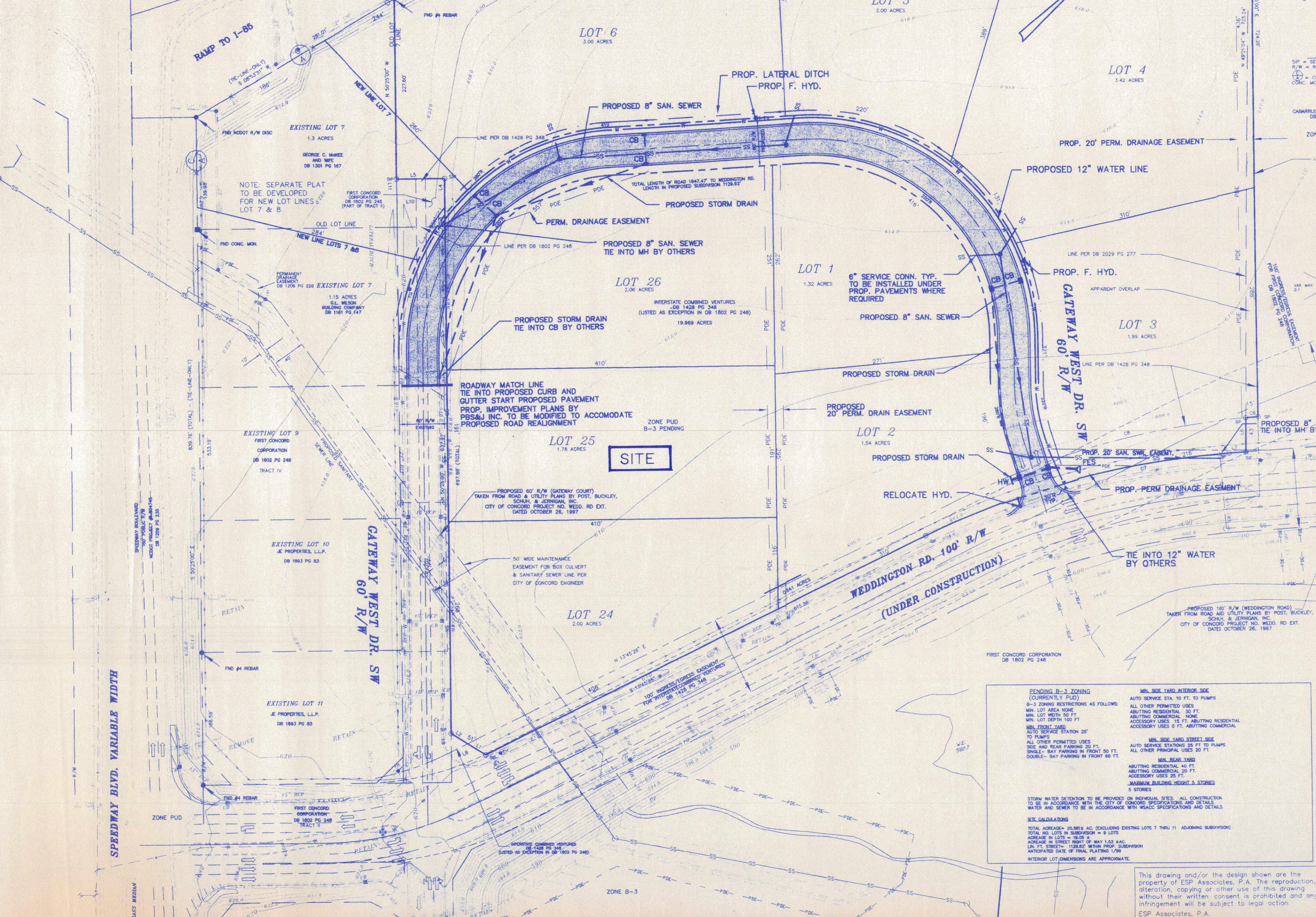
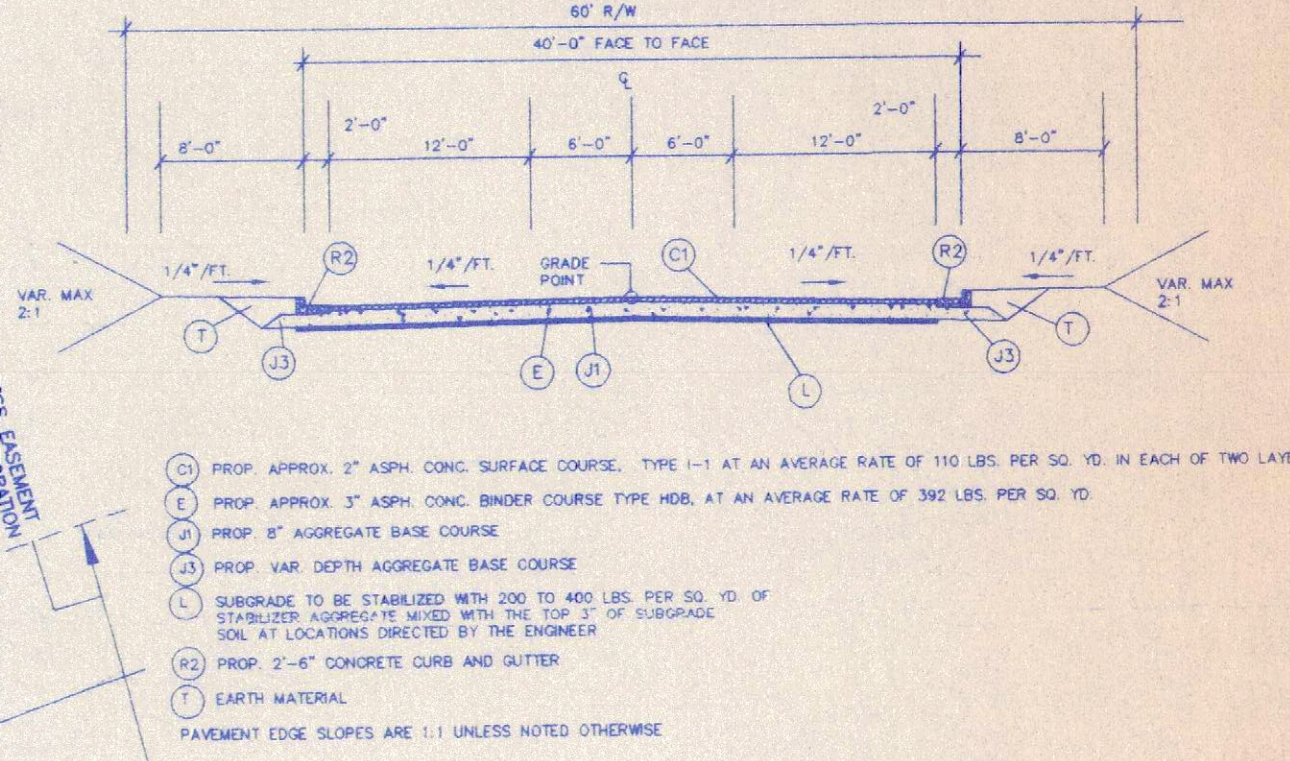
LINE	DIRECTION	DISTANCE
L1	S 71°39'59" W	26.56
L2	S 71°39'59" W	42.88
L3	N 50°25'00" W	41.88
L4	N 50°25'00" W	18.01
L5	S 39°55'00" W	22.85
L6	S 49°21'04" W	43.09
L7	S 36°29'20" W	21.04
L8	S 39°55'00" W	22.85
L9	N 50°25'00" W	22.85
L10	S 39°55'00" W	60.00
L11	S 50°25'00" W	18.01
L12	S 12°49'38" W	9.34
L13	S 03°27'26" E	109.47

U. S. INTERSTATE 85
R/W VARIES



NOTES:
THIS PROPERTY MAY BE SUBJECT TO ANY EASEMENTS AND/OR RIGHTS-OF-WAY INCLUDING BUT NOT LIMITED TO THE FOLLOWING GENERAL EASEMENTS:
ONE POWER COMPANY;
CONCORD TELEPHONE COMPANY;
DB 234 PG 397, DB 283 PG 081, DB 224 PG 393
DB 415 PG 182, DB 333 PG 137
DB 283 PG 077, DB 314 PG 473, DB 410 PG 648
DB 134 PG 294
BOARD OF LIGHT AND WATER COMMISSIONERS;
DB 134 PG 294
SOUTHERN PUBLIC UTILITIES;
DB 122 PG 578

#4 REBAR SET AT ALL CORNERS UNLESS OTHERWISE NOTED.
THE 100% HORIZONTAL TRAVEL "ROCK RIVER" COMPUTED FROM ACTUAL FIELD LOCATION OF "ROCK RIVER" AT TIME OF THE PREVIOUS SURVEY BY ESP ASSOCIATES, P.A., DATED "TITLE" OF A PORTION OF KINGS GRANT (MAP #) SURVEY FOR MONAR/LANDER KING'S GRANT PROJECT AND DATED 10-10-88 AND REVISED THROUGH 8-11-89 AND DOES NOT REFLECT FIELD VERIFICATION AT THIS TIME.
UNADJUSTED ERROR OF CLOSURE IS 1:26,704.
TOTAL ACRES FOR THE AREA ENCOMPASSED BY THIS MAP IS 20.861 ACRES.
DATE OF SURVEY 12/87.
AREAS COMPUTED BY COORDINATE METHOD.
SUBJECT TRACT DEED REPRODUCE:
DB 1301 PG 187, DB 1428 PG 348, DB 1802 PG 248, DB 2029 PG 277, DB 1211 PG 203, DB 1181 PG 147, DB 1200 PG 235.



PENDING B-3 ZONING (CURRENTLY PUD)
B-3 ZONING RESTRICTIONS AS FOLLOWS:
MIN. LOT AREA NONE
MIN. LOT WIDTH 50 FT
MIN. LOT DEPTH 100 FT
MIN. FRONT YARD AUTO SERVICE STATION 25' TO PUMPS
ALL OTHER PERMITTED USES
SIDE AND REAR PARKING 20 FT
SINGLE-BAY PARKING IN FRONT 50 FT
DOUBLE-BAY PARKING IN FRONT 60 FT

MIN. SIDE YARD INTERIOR SIDE
AUTO SERVICE STA. 10 FT. TO PUMPS
ALL OTHER PERMITTED USES
ABUTTING RESIDENTIAL 30 FT.
ABUTTING COMMERCIAL NONE
ACCESSORY USES 15 FT. ABUTTING RESIDENTIAL
ACCESSORY USES 0 FT. ABUTTING COMMERCIAL

MIN. SIDE YARD STREET SIDE
AUTO SERVICE STATIONS 25 FT. TO PUMPS
ALL OTHER PRINCIPAL USES 20 FT.

MIN. REAR YARD
ABUTTING RESIDENTIAL 40 FT.
ABUTTING COMMERCIAL 20 FT.
ACCESSORY USES 25 FT.

MAXIMUM BUILDING HEIGHT 5 STORES

STORM WATER DETENTION TO BE PROVIDED ON INDIVIDUAL SITES. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THE CITY OF CONCORD SPECIFICATIONS AND DETAILS. WATER AND SEWER TO BE IN ACCORDANCE WITH WDCS SPECIFICATIONS AND DETAILS.

SITE CALCULATIONS
TOTAL ACRES = 20.861 AC. (EXCLUDING EXISTING LOTS 7 THRU 11 ADJOINING SUBDIVISION)
TOTAL NO. LOTS IN SUBDIVISION = 8 LOTS
ACREAGE IN LOTS = 18.09 ±
ACREAGE IN STREET RIGHT-OF-WAY 1.53 AC.
LN. FT. STREETS = 1128.62' WITHIN PROP. SUBDIVISION
ANTICIPATED DATE OF FINAL PLATING 1/89
INTERIOR LOT DIMENSIONS ARE APPROXIMATE.

ESP ASSOCIATES, P.A.
engineering • surveying • planning
10915 Southern Loop Boulevard
Pineville, NC (704) 588-4949

PRELIMINARY PLAT ONLY NOT FOR RECORDATION
CONVEYANCES OR SALES

NO.	DATE	REVISION	BY
2	6/11/98	REVISED PER CITY OF CONCORD PLANNING DEPT. HEARINGS	PGG/JAM
1	4/9/98	SUBMITTED FOR APPROVAL TO CITY OF CONCORD	PGG/TMB/LBC
NO.	DATE	REVISION	BY

SHEET TITLE
**NORTHEAST QUADRANT SUBDIVISION
PRELIMINARY PLAT**

PROJECT
**KINGS GRANT
20 ACRE PARCEL**
CITY OF CONCORD, CABARRUS CO., N.C.

CHECKED BY
PGG

DRAWN BY
WRS/TMB

PROJECT NO.
MC23

SCALE
1"=60'

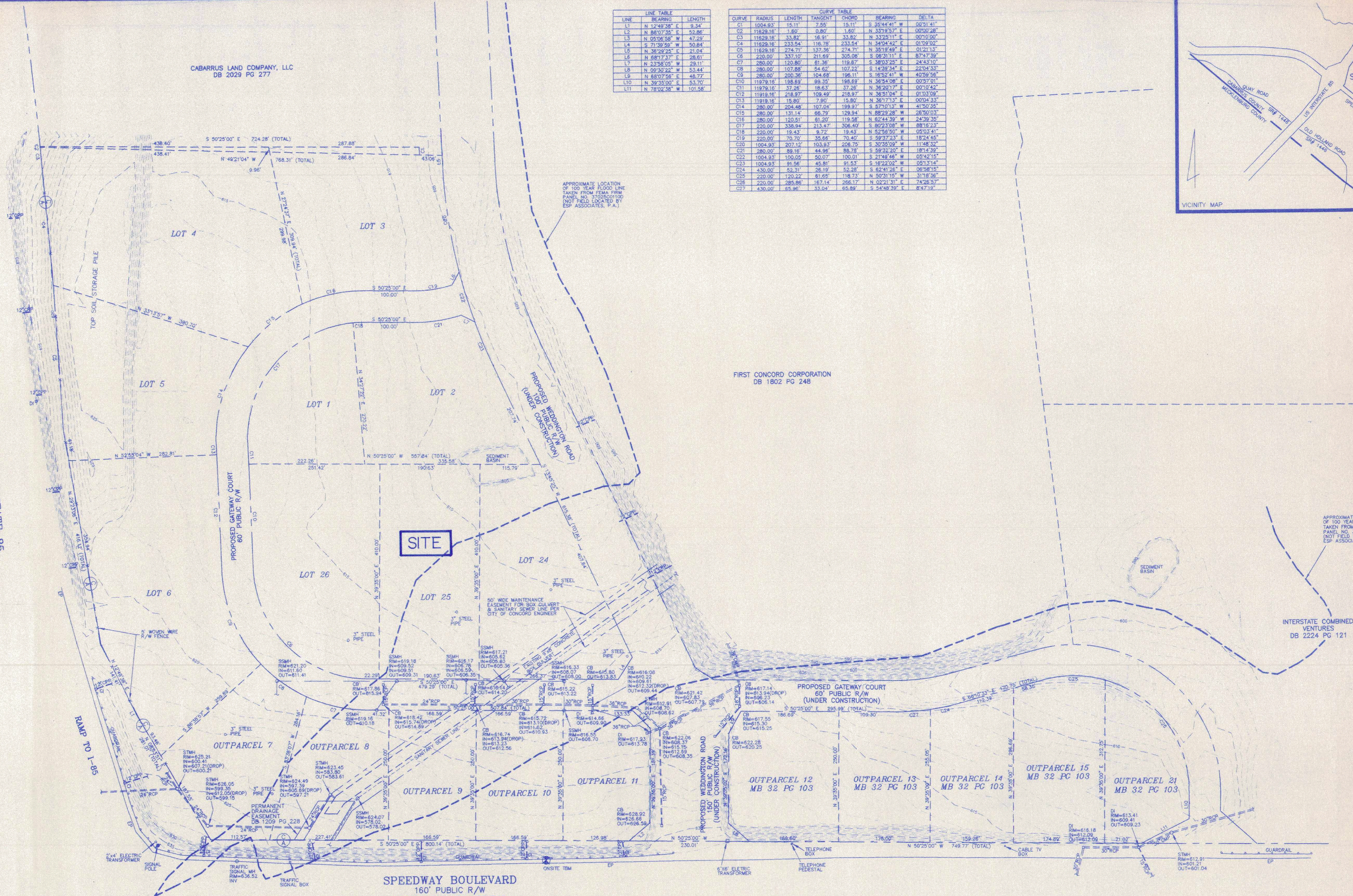
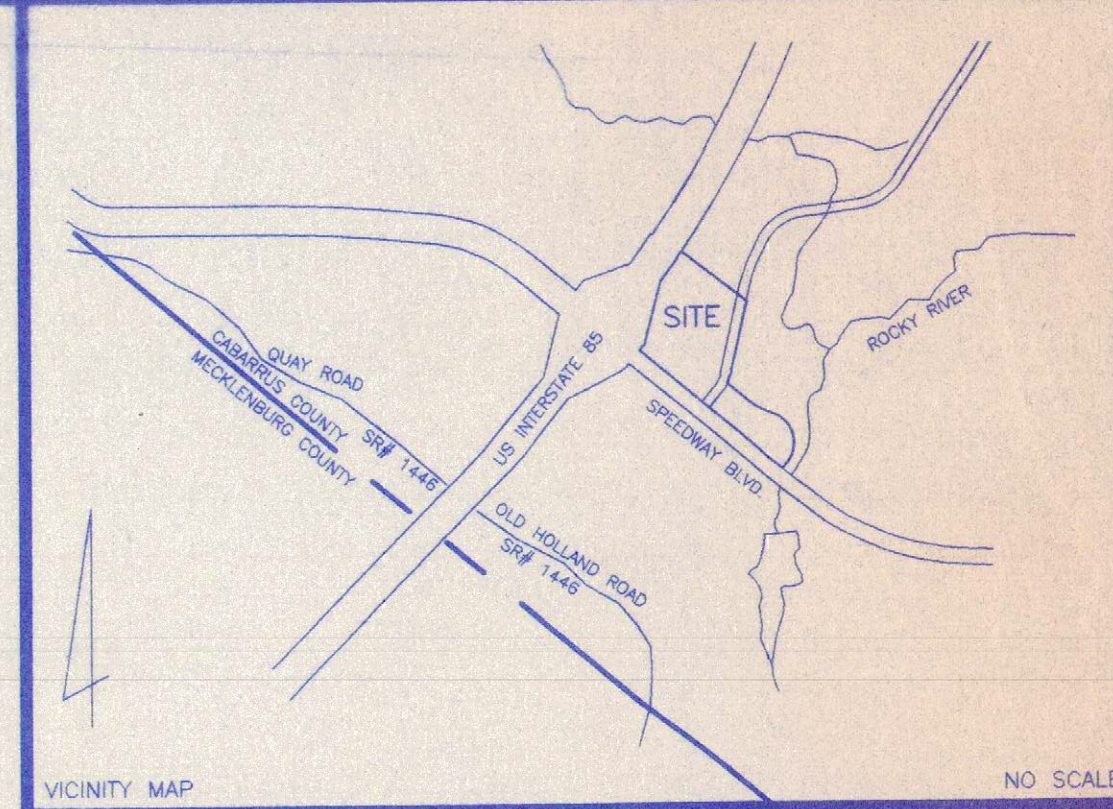
DATE
4/7/98

DRAWING NO.
MC23SITE/REC'DV.DWG

S.I.
1 of 1 SHEET

LINE	BEARING	LENGTH
L1	N 12°49'38" E	9.34'
L2	N 80°07'55" E	53.86'
L3	N 05°06'58" W	47.29'
L4	S 71°58'58" W	50.84'
L5	N 38°29'25" E	31.94'
L6	N 68°17'37" E	28.61'
L7	N 63°26'05" W	28.11'
L8	N 02°32'42" W	53.44'
L9	N 88°07'56" E	48.77'
L10	N 32°23'00" E	53.20'
L11	N 78°32'38" W	101.58'

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	1004.93	15.11	7.85	15.11	S 39°44'48" W	00°31'41"
C2	11828.16	1.80	0.80	1.80	N 33°25'11" E	00°10'00"
C3	11828.16	33.82	16.91	33.82	N 33°25'11" E	00°10'00"
C4	11828.16	233.54	116.78	233.54	S 39°44'42" E	01°28'00"
C5	11828.16	274.71	137.36	274.71	S 08°31'11" E	01°21'13"
C6	220.00	337.10	211.69	305.09	S 08°31'11" E	87°47'39"
C7	280.00	120.80	61.36	119.87	S 38°03'25" E	24°43'10"
C8	280.00	107.89	54.62	107.22	S 14°39'34" E	22°04'33"
C9	280.00	200.30	104.68	196.11	S 16°52'41" W	40°59'58"
C10	11828.16	188.67	98.33	188.68	N 38°54'08" E	00°37'01"
C11	11828.16	37.26	18.63	37.26	N 38°54'08" E	00°10'42"
C12	11828.16	218.87	109.44	218.87	N 38°54'08" E	00°10'42"
C13	11828.16	18.82	7.90	18.82	N 38°54'08" E	00°10'42"
C14	280.00	204.48	107.04	199.97	S 57°10'13" W	41°50'35"
C15	280.00	131.14	66.79	128.94	N 86°29'28" W	28°30'03"
C16	280.00	150.51	61.00	149.58	N 62°44'30" W	24°39'36"
C17	220.00	338.94	213.47	306.47	S 80°23'08" W	88°16'23"
C18	220.00	18.83	9.72	18.83	N 57°56'50" W	00°03'41"
C19	220.00	70.29	35.65	70.40	S 59°37'23" E	18°24'45"
C20	1004.93	207.14	103.87	206.75	S 30°35'09" W	11°48'32"
C21	280.00	88.18	44.09	88.78	S 52°32'00" E	18°14'39"
C22	1004.93	100.00	50.00	100.01	S 21°48'46" W	05°42'15"
C23	1004.93	81.56	40.81	81.53	S 16°22'02" W	05°17'14"
C24	430.00	53.31	28.12	53.28	S 62°41'28" E	08°08'15"
C25	220.00	120.22	61.65	118.73	N 50°31'15" W	31°18'36"
C26	220.00	285.80	167.14	266.17	N 02°21'31" E	74°28'57"
C27	430.00	63.95	33.04	63.89	S 54°48'30" E	8°47'17"



NOTES

THIS PROPERTY MAY BE SUBJECT TO ANY EASEMENTS AND/OR RIGHTS-OF-WAY INCLUDING BUT NOT LIMITED TO THE FOLLOWING GENERAL EASEMENTS:

- DUKE POWER COMPANY: DB 224 PG 397, DB 283 PG 581, DB 224 PG 393
- CONCORD TELEPHONE COMPANY: DB 283 PG 577, DB 314 PG 473, DB 410 PG 648
- BOARD OF LIGHT AND WATER COMMISSIONERS: DB 134 PG 284
- SOUTHERN PUBLIC UTILITIES: DB 122 PG 576

DATE OF SURVEY 7/98.

BOUNDARY LINES SHOWN TAKEN FROM VARIOUS SURVEYS AND PLANS AND ARE FOR ORIENTATION PURPOSES ONLY. LOT CONFIGURATION OF LOTS 1 THRU 8 AND LOTS 24 THRU 26 ARE PROPOSED.

PROJECT BENCHMARK - USGS BENCHMARK DISK "63 JAS" CONCRETE MONUMENT WITH DISK ON THE SOUTHEAST SIDE OF THE T-INTERSECTION OF SR 1384 (POPLAR TENT ROAD) AND SR 1445 (DERITA ROAD) ELEVATION = 729.05

ONSITE TBM - "MAG" NAIL SET IN JOINT OF CURB ON NORTH SIDE OF SPEEDWAY BOULEVARD ADJACENT TO OUTPARCEL 10, ELEVATION = 634.06

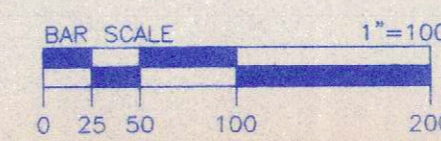
A PORTION OF SUBJECT TRACT IS LOCATED WITHIN A SPECIAL FLOOD HAZARD AREA PER FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP NO. 37025 001100 WITH AN EFFECTIVE DATE OF NOVEMBER 2, 1994. HOWEVER, SITE HAS BEEN FILLED AND GROUND SURFACE ELEVATION IS HIGHER THAN THAT SHOWN ON FEMA MAP. NO LETTER OF MAP REVISION HAS BEEN MADE BY ESP ASSOCIATES, P.A. AT THE TIME OF THIS SURVEY.

SUBJECT TRACT IS UNDER CONSTRUCTION. INFORMATION SHOWN REFLECT SITE CONDITIONS AS OF 8-4-98.

SPEEDWAY BOULEVARD
160' PUBLIC R/W
NCDOT PROJECT #6.804745
DB 1209 PG 235

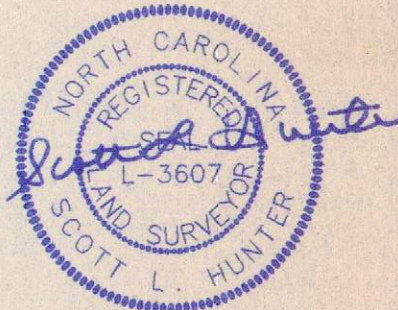
LEGEND

- R/W = RIGHT-OF-WAY
- TBM = TEMPORARY BENCHMARK
- OPP = CORRUGATED PLASTIC PIPE
- DI = DITCH INLET
- CB = CATCH BASIN
- CI = CATCH INLET
- SSMH = SANITARY SEWER MANHOLE
- SMH = STORM DRAINAGE MANHOLE
- RCP = REINFORCED CONCRETE PIPE
- CMP = CORRUGATED METAL PIPE
- EP = EDGE OF PAVEMENT



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ESP Associates, P.A.



8-31-98

NO.	DATE	REVISION	BY
3	8-31-98	ADDED BEARINGS & DISTANCES TO PROPERTY LINES	RLS
2	8-4-98	ADDED ASBLT INFO ON STORM & SEWER	RLS
1	7-27-98	REMOVED CEMETERY FROM SITE	RLS

PROJECT NO.	MAO3NET
SCALE	1"=100'
DATE	7-14-98
DRAWN BY	SLH/RLS
CHECKED BY	SLH
DRAWING NO.	MAO3NETPO.DWG

TOPOGRAPHIC SURVEY OF APPROXIMATELY 45.714 ACRES FOR LANDEX, INC.
LOCATED IN CITY OF CONCORD CABARRUS COUNTY NORTH CAROLINA

LANDEX, INC.
5555 CONCORD PARKWAY SOUTH
SUITE 420, SMITH TOWERS
HARRISBURG, NORTH CAROLINA 28075
(704) 455-5411

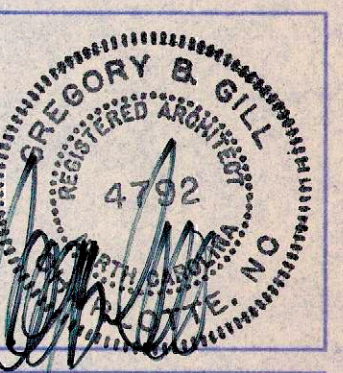
5.2

ESP ASSOCIATES, P.A.
engineering • surveying • planning

10915 Southern Loop Boulevard
Pineville, NC 28134 (704) 583-4949

CONCORD HOLIDAY INN EXPRESS INN AND SUITES
King's Grant
Concord, NC

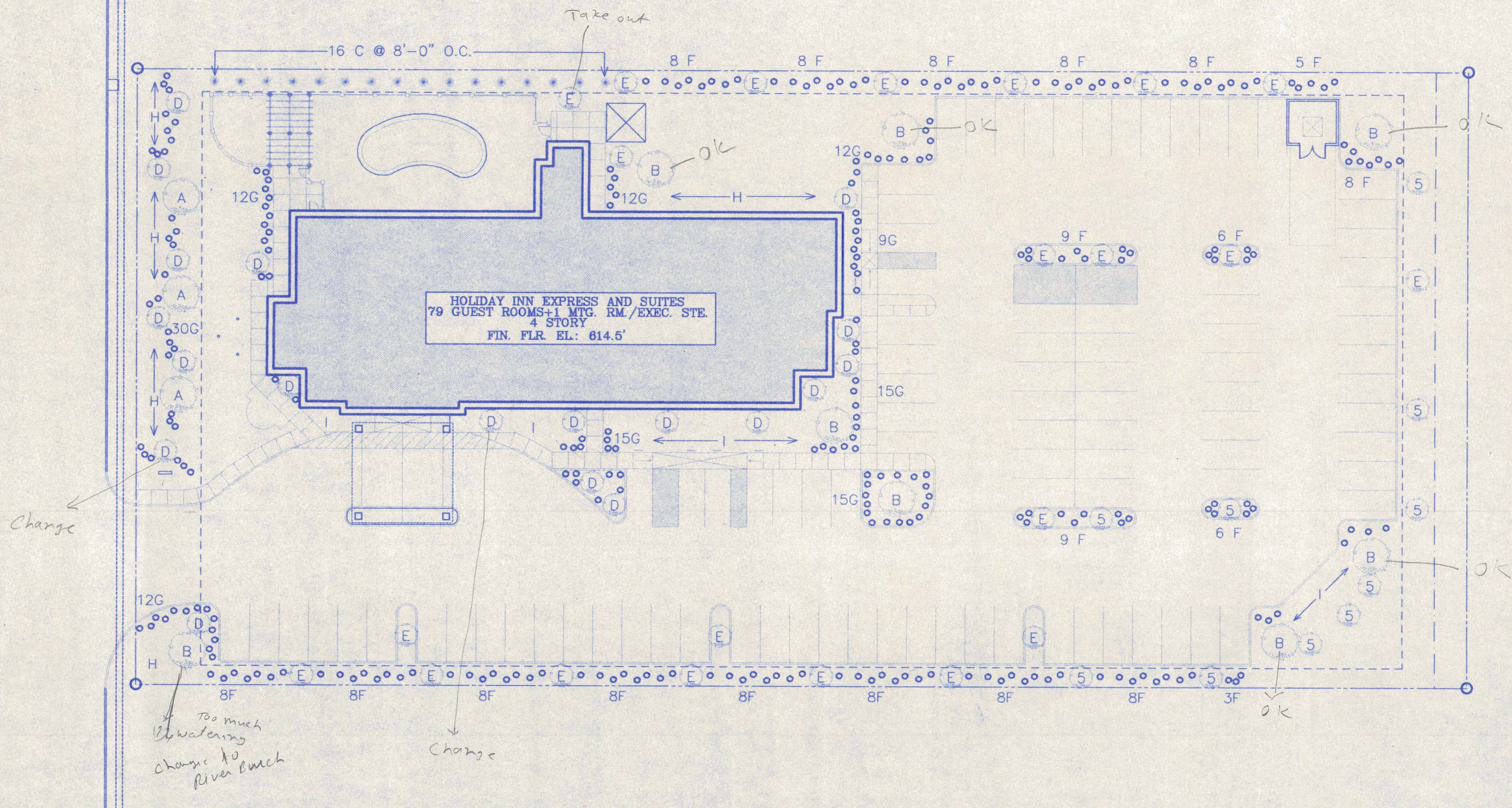
PROJ. NO. H98-041
DATE 10/30/98
DRAWN BY SPO
CHECKED BY GBG
REVISIONS



LANDSCAPE PLAN

LS-1

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A ok
all
Change D to west middle
ALL E OK
ALL C OK
ALL F ok Different colour
G (2)
H (2) I OK

LANDSCAPE PLANTING KEY

CANOPY	A. SUGAR MAPLE, 2" CAL., 12'-14" B. WILLOW OAK, 2" CAL., 12'-14"
UNDERSTORY	C. AMERICAN HOLLY, 1.5" CAL., 20 B&B D. LELAND CYPRESS, 1.5" CAL., 20" B&B E. CRAPE MYRTLE, 1.5" CAL., 20" B&B
SHRUBS	F. GLENN DALE AZALEA, 12-18" G. ENGLISH LAUREL, 12-18"
GRND. COVER	H. CREEPER JUNIPER I. PERIWINKLE

LANDSCAPE NOTES:
ALL PLANTINGS SHALL CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK. TREE AND SHRUB PLANTINGS SHALL BE MULCHED 2' RADIUS FROM STEM AND 3" DEEP MIN.

SEE CIVIL SHEET C-5 FOR GRASS SEEDING. STEM AND 3" DEEP MIN.

1 HOLIDAY INN EXPRESS INN AND SUITES
LANDSCAPE PLAN

SCALE 1" = 20'-0"
79 GUEST ROOMS+1 MTG. RM./EXECUTIVE STE
97 PARKING SPACES
190'-7 1/2" X 410'-0" = 1.79 ACRES



NORTH

REF. NORTH

ZONING CODE SUMMARY

PROJECT NAME: HOLIDAY INN EXPRESS & SUITES
 OWNER: SAM PATEL
 PLANS PREPARED BY: GEOSCIENCE GROUP
 ZONING: PUD B-3
 PROPOSED USE: HOTEL (BUSINESS DISTRICT)
 BUILDING HEIGHT: 57' Feet, Stories: 4
 BUILDING COVERAGE: 10,888 Sq. Ft. GROSS FLOOR AREA: 42,493 Sq. Ft.
 LOT SIZE: 1.73 Sq. Ft./Acres NUMBER OF UNITS/SUITES: 79

YARD REQUIREMENTS:
 Setback (front): 20 ft. from R/W
 Side Yard (L): 6 ft. Side Yard (R): 50 ft. from C/L of R/W
 Rear Yard: 20 ft.

REQUIRED BUFFERS:
 Front: No / Yes 8 ft. Rear: No / Yes ft.
 Side (L): No / Yes ft. Side (R): No / Yes ft.

REQUIRED SCREENING:
 Front: No / Yes
 Side (L): No / Yes
 Parking Only: No / Yes
 Rear: No / Yes
 Side (R): No / Yes

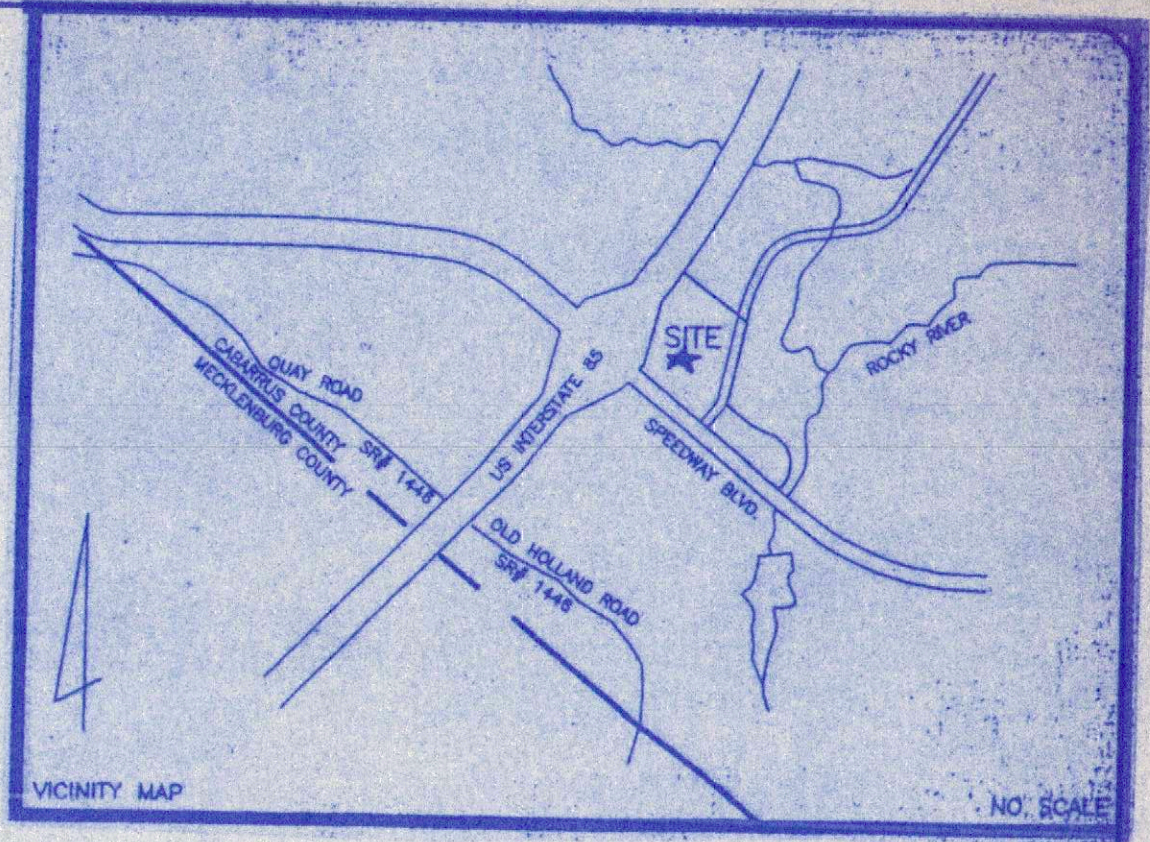
PAVEMENT COVERAGE 38,467 sq. ft. / acres
 INTERIOR LANDSCAPING: Required Per Article IX of Landscape Ordinance
 PERIMETER LANDSCAPING:

PARKING DATA:
 1 SPACE / GUESTROOM = 79 SPACES
 1 SPACE / 2 EMPLOYEES MAXIMUM SHIFT = SIXTEEN (16) EMPLOYEES/2 = 8 SPACES
 TOTAL SPACES REQUIRED: 86 SPACES

Required: 86 Provided: 95 Handicap: 6 Compact: 1
 Carpool: Loading Spaces: 1 (12'x36')

ALL SIGNAGE WILL BE APPROVED AND PERMITTED SEPARATELY.

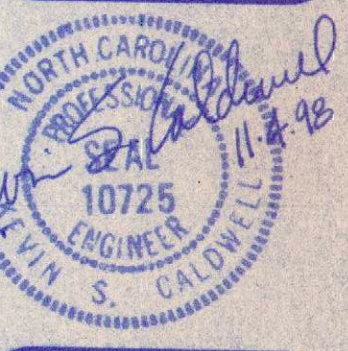
- GENERAL NOTES:**
- ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
 - BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A SURVEY BY E.S.P. ASSOCIATES, P.A. DATED 4/7/98.
 - SEE ARCHITECTURAL PLANS FOR DETAILED BUILDING & SIDEWALK DIMENSIONS.
 - THE UTILITIES AND THE LOCATION THEREOF, SHOWN ON THE DRAWINGS, REPRESENT THE DESIGNER'S UNDERSTANDING OF EXISTING UTILITIES IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION, DEPTH AND EXISTENCE OF ALL UTILITIES (ELECTRICAL, MECHANICAL, WATER, TELEPHONE, GAS ETC.) WITHIN THE CONSTRUCTION AREA WITH THE OWNER AND/OR THE APPROPRIATE UTILITY COMPANY PRIOR TO ANY EXCAVATION. THE OMISSION OF OR THE INCLUSION OF UTILITY LOCATIONS ON THE PLANS IS NOT TO BE CONSIDERED AS THE NON-EXISTENCE OF OR A DEFINITE UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. CONTACT U-LOCAL (1-800-632-4949)
 - ALL TRAFFIC SIGNS, STRIPE PAINTING ETC., TO CONFORM TO THE PRINCIPLES OF THE MANUAL ON UNIFORM TRAFFIC CONTROL.
 - ALL CURB CUTS SHALL BE MADE BY SAW CUTS, EXISTING ELEVATIONS SHALL BE FIELD VERIFIED AND MATCHED.
 - ALL LANDSCAPE AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT CONTRACTOR'S EXPENSE.
 - CONTRACTOR TO PROVIDE ALL EROSION CONTROL DEVICES MEASURES AS REQUIRED BY STATE AND LOCAL AUTHORITIES.
 - TOP SOIL TO BE STRIPPED AND STOCKPILED IN AREA DESIGNATED BY ARCHITECT / ENGINEER.
 - CONTRACTOR TO COORDINATE ANY PROBLEMS OR FIELD CONDITIONS THAT MAY CHANGE DESIGN WITH ARCHITECT / ENGINEER PRIOR TO PROCEEDING.
 - ANY UNSUITABLE MATERIAL ON SITE IS TO BE QUALIFIED BY A GEOTECHNICAL ENGINEER. PRIOR TO REMOVAL, CONTRACTOR MUST NOTIFY OWNER, OR OWNER'S REPRESENTATIVE IN CASE UNSUITABLE MATERIAL IS UNCOVERED.
 - ALL SPOT ELEVATIONS ARE TO THE EDGE OF PAVEMENT UNLESS NOTED OTHERWISE.



PROJECT NUMBER	11-98
DATE	11/98
DESIGNER	GEOSCIENCE GROUP, INC.
APPROVED BY	[Signature]
DATE	11/98
SCALE	AS SHOWN
SHEET NO.	6
TOTAL SHEETS	6

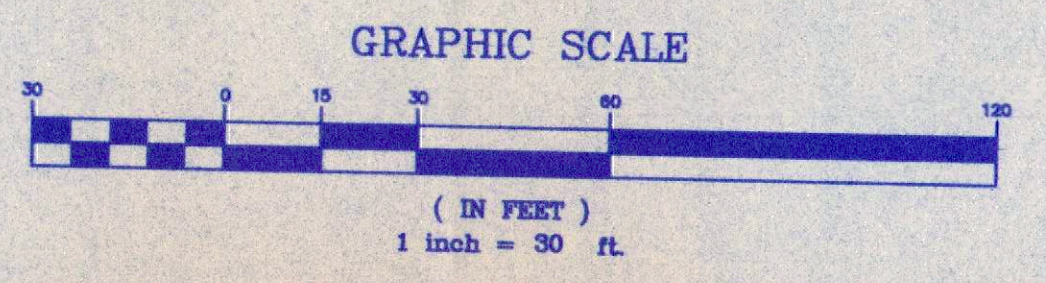
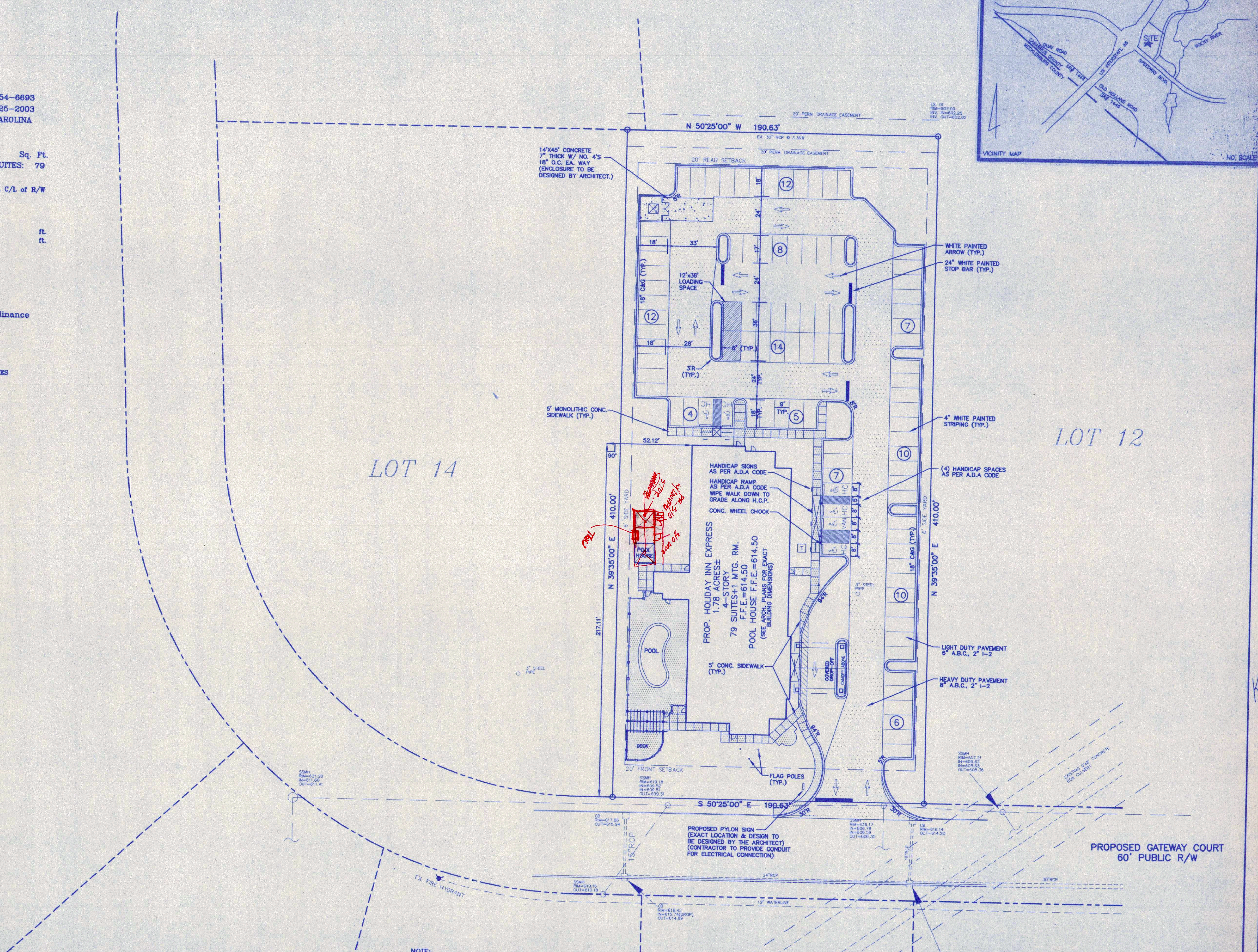
GEOSCIENCE GROUP, INC.
 500-K Canton Road
 Charlotte, NC 28217
 704-525-2003
 704-525-2051 (fax)

HOLIDAY INN EXPRESS
 CONCORD, NORTH CAROLINA



SITE PLAN

1
6



NOTE:
 1) ALL FIXTURES ARE IN VAULTS SET BELOW FINISH GRADE WITH 4" DRAIN LINES
 2) WSACC TO SET METERS AND CONTRACTOR TO SET D.C.V.A. AND B.F.P.
 3) CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING 12" WATERLINE

CONSTRUCTION & EROSION CONTROL SEQUENCE

1. RECEIVE PLAN APPROVAL FROM CABARRUS COUNTY ENVIRONMENTAL SERVICES.
2. REQUEST PRE-CONSTRUCTION CONFERENCE WITH CABARRUS INSPECTOR.
3. INSTALL CONSTRUCTION ENTRANCE AND EROSION DEVICES NECESSARY FOR CONTROLLING AREAS TO BE DENUED AS PER APPROVED PLAN.
4. INFORM INSPECTOR OF COMPLETION OF EROSION CONTROL DEVICES, AND REQUEST HIS INSPECTION FOR COMPLIANCE WITH STANDARDS.
5. BEGIN ASPHALT REMOVAL AND GRADING OPERATION.
6. ANY TOP SOIL TO BE STRIPPED SHALL BE STOCKPILED IN AREA DESIGNATED BY ENGINEER.
7. ANY AREAS OF EXCESS SOIL TO BE WASTED ON SITE, SHALL BE DESIGNATED BY OWNER OR OWNER'S REPRESENTATIVE. SOIL TO BE WASTED AS MUCH ALLOWED TO ENSURE STABILIZED SLOPES.
8. STABILIZE SITE BY TEMPORARY SEEDING AS AREAS ARE BROUGHT UP TO FINISH GRADE.
9. AS SITE IS BROUGHT TO GRADE IN FILL/CUT AREAS, TEMPORARY ELEVATIONS FOR SILT DITCHES SHALL BE MAINTAINED IN ORDER TO KEEP DRAINAGE FLOWING TO SEDIMENT TRAPS.
10. ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH "NO EROSION AND SEDIMENT CONTROL DESIGN MANUAL".
11. THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES TO MINIMIZE EROSION. THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH ROWAN COUNTY INSPECTOR.
12. ON-SITE BURIAL PITS REQUIRE AN ON-SITE DEMOLITION LANDFILL PERMIT FROM THE LOCAL AUTHORITIES.
13. ALL FILL SLOPES AT 2:1 SHALL BE CONSTRUCTED WITH AUTE/EXCELSDOR BLANKETS AND HYDROSEEDED IMMEDIATELY.
14. SEED AND FERTILIZE DENUED AREA.
15. COMPLETE PRE-FINAL INSPECTION FORM AND SUBMIT TO INSPECTOR.
16. REQUEST FINAL INSPECTION FROM CABARRUS COUNTY INSPECTOR.
17. RELEASE OF EROSION CONTROL BOND.
18. OFF-SITE FILL MATERIAL MUST ORIGINATE FROM A PERMITTED SITE.
19. TIME OF EXPOSURE IS CRITICAL AND MUST BE MINIMIZED. SEDIMENT CONTROL MEASURES MUST REMAIN INTACT ON A CONTINUOUS BASIS FOR THE ROADWAY UNTIL STONE BASE IS APPLIED.

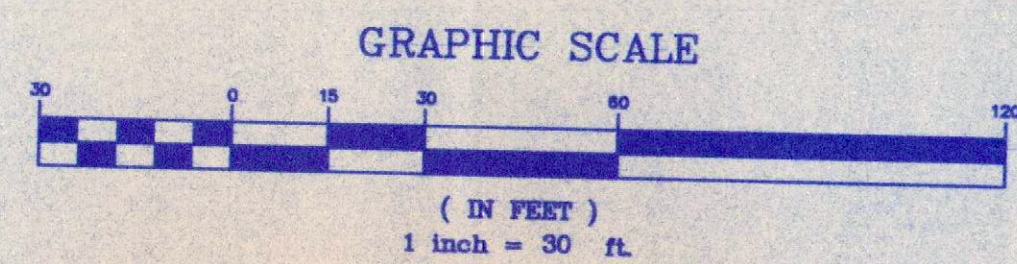
TREE PROTECTION AND GRADING NOTES:

1. ANY GRADING BEYOND THE LIMITS OF DISTURBANCE (DENUED AREA) SHOWN ON THE PLAN IS A VIOLATION OF CITY/COUNTY'S EROSION CONTROL ORDINANCE AS WELL AS ZONING REGULATIONS / CONDITIONS AND IS SUBJECT TO A FINE.
2. STABILIZATION IS THE BEST FORM OF EROSION CONTROL. TEMPORARY SEEDING IS NECESSARY TO ACHIEVE EROSION CONTROL ON LARGE DENUED AREAS AND ESPECIALLY WHEN SPECIFICALLY REQUIRED AS PART OF THE CONSTRUCTION SEQUENCE SHOWN ON THE PLAN. ALL GRADED SLOPES MUST BE SEEDING AND MULCHED WITHIN 30 DAYS OF COMPLETION OF GRADING. ALL REMAINING AREAS ARE TO BE SEEDING AND MULCHED WITHIN 120 DAYS.
3. TREE BARRICADES MUST BE INSTALLED BEFORE ANY DEMOLITION/CLEARING/GRADING/CONSTRUCTION, AND NOT REMOVED UNTIL AFTER FINAL INSPECTION.
4. ALL EXISTING TREES SHALL BE RELOCATED BY TREE SPADE AND NEW LOCATION'S WILL BE SHOWN ON THE FINAL LANDSCAPE PLAN.
5. NO SOIL DISTURBANCE OR COMPACTION, CONSTRUCTION TRAFFIC, BURIAL PITS, TRENCHING OR OTHER LAND DISTURBING ACTIVITY WILL BE ALLOWED IN THE TREE PROTECTION ZONE.
6. ADDITIONAL MEASURES TO CONTROL EROSION CONTROL MAY BE REQUIRED BY THE EROSION CONTROL SPECIALIST.

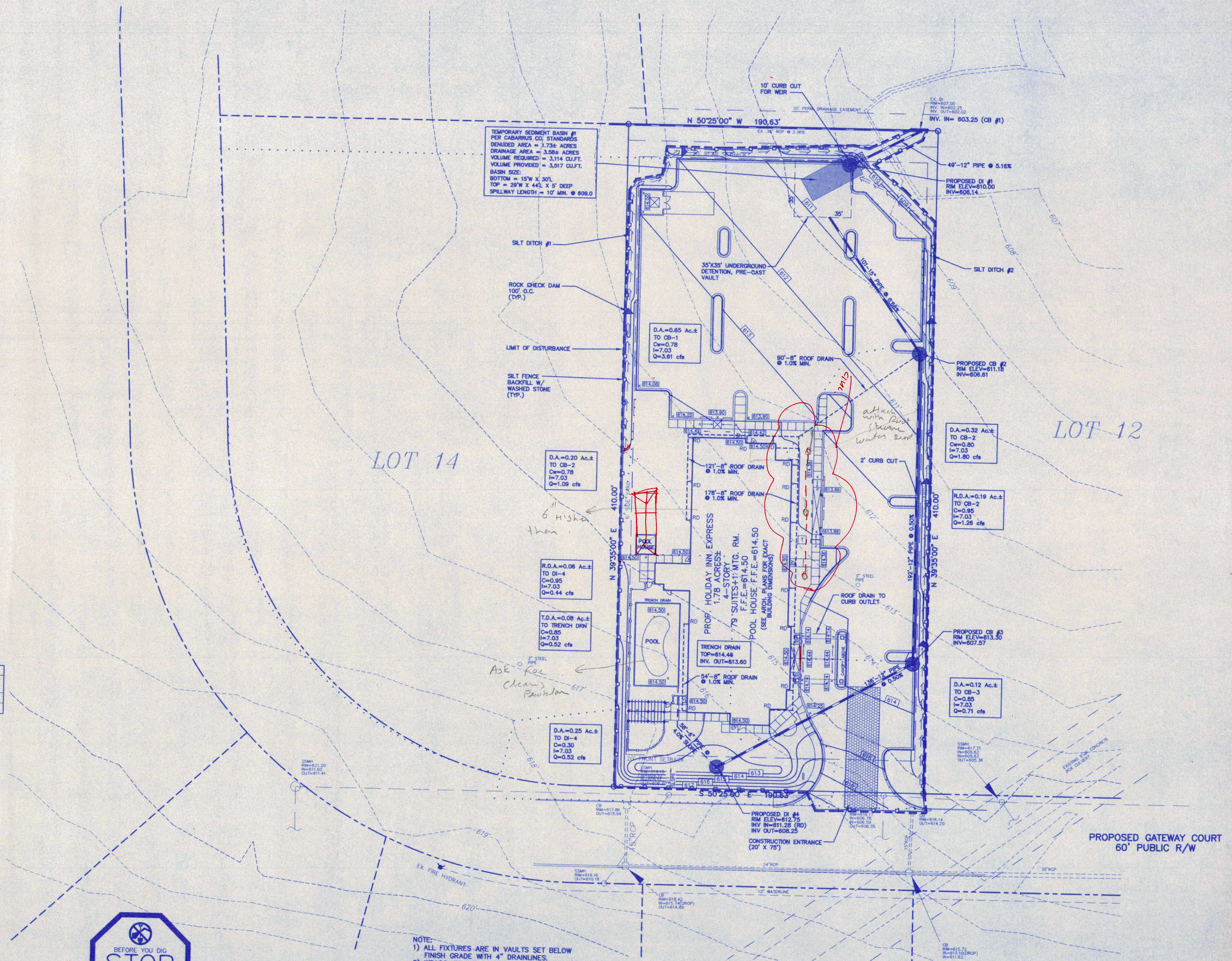
SOIL TYPE: WkB - Wilkes Loam
 TOTAL DENUED AREA: 1.73± ACRES
 PROPOSED IMPERVIOUS AREA: 38,467± SF
 EXISTING IMPERVIOUS AREA: 0 ± SF
 DIFFERENCE = 38,467± SF
 * DETENTION REQUIRED (MORE THAN 20,000 S.F.)

DITCH #	LEFT SIDE SLOPE	RIGHT SIDE SLOPE	CHANNEL SLOPE	Q10 (CFS)	FLOW DEPTH (FT.)	MIN. DEPTH (FT.)	BOTTOM WIDTH (FT.)	VELOCITY (FPS)
1	2:1	2:1	1.96%	5.73	1.86	1.52	0	3.31
2	2:1	2:1	1.77%	6.08	1.94	1.56	0	3.24

- NOTE:
- 1) ALL SILT DITCHES TO CONFORM TO C.M.L.D. STD. 30.05.
 - 2) ALL DITCHES TO HAVE 1' OF FREEBOARD ABOVE FLOW DEPTH.
 - 3) ALL DITCHES HAVE 2:1 SIDE SLOPES AND ARE V-DITCH.
 - 4) MINIMUM DEPTH IS MEASURED FROM DITCH BOTTOM TO TOP OF BERM.
 - 5) SEE DETAIL SHEET C-5 TEMP. SILT DIVERSION DITCH.



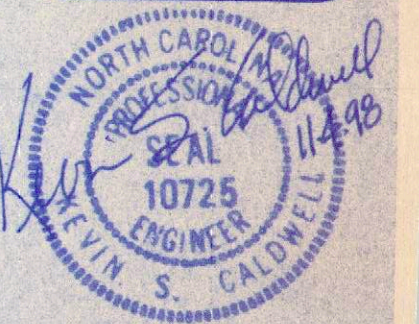
- NOTE:
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 - 2) WSACC TO SET METERS AND CONTRACTOR TO SET D.C.V.A. AND B.F.P.
 - 3) CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING 12" WATERLINE.



DATE	REV.

PROSCIENCE GROUP, INC.
 500-K Clinton Road
 Charlotte, NC 28217
 704-525-2003
 704-525-6511 (fax)

**HOLIDAY INN EXPRESS
 CONCORD, NORTH CAROLINA**

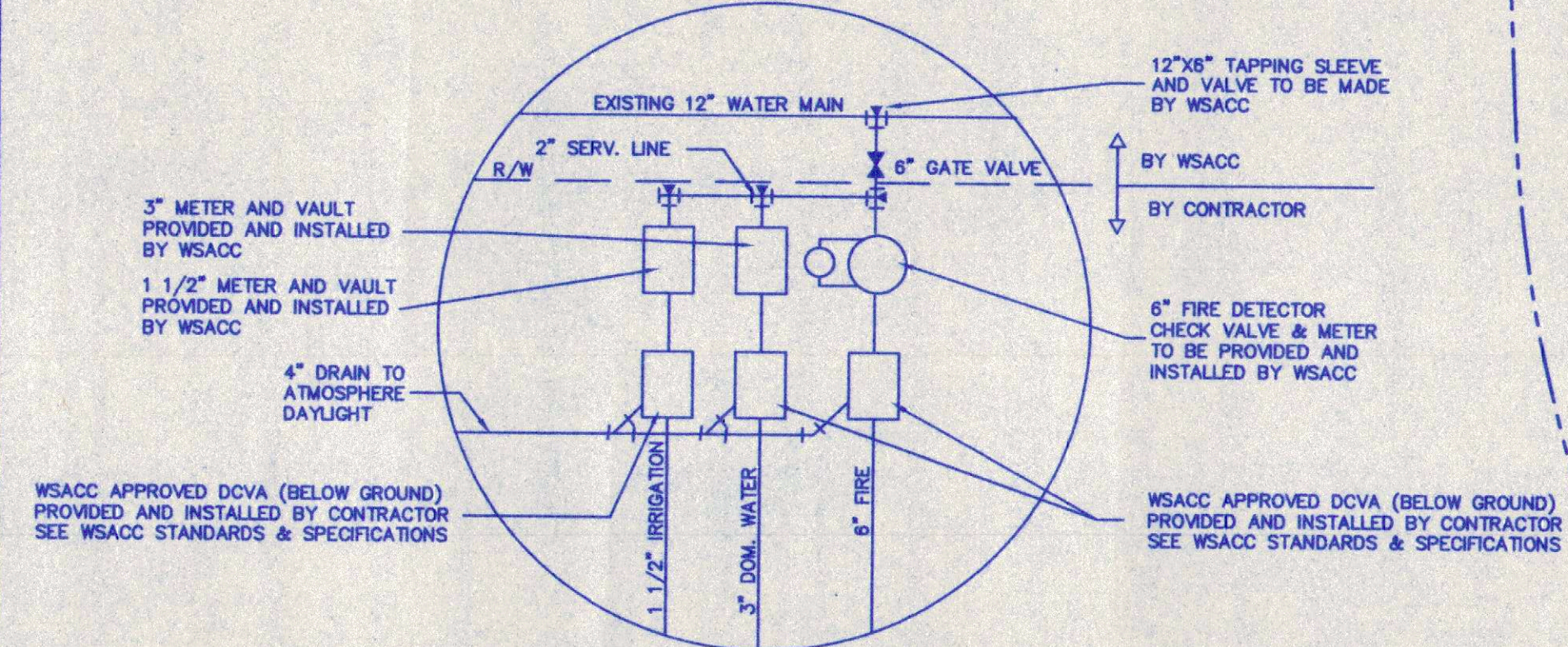


**GRADING, STORM DRAINAGE
 & EROSION CONTROL PLAN**

2
6

UTILITY NOTES:

- THE UTILITIES AND THE LOCATIONS THEREOF, SHOWN ON THE DRAWING, REPRESENT THE DESIGNER'S UNDERSTANDING OF EXISTING UTILITIES IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH AND EXISTENCE OF ALL UTILITIES (ELECTRICAL, MECHANICAL, WATER, TELEPHONE, GAS, ETC.) WITHIN THE CONSTRUCTION AREA WITH THE OWNER AND/OR THE APPROPRIATE UTILITY COMPANY PRIOR TO BEGINNING ANY EXCAVATION. THE OMISSION OF OR THE INCLUSION OF UTILITY LOCATIONS ON THE PLANS IS NOT TO BE CONSIDERED AS THE NON-EXISTENCE OF OR A DEFINITE LOCATION OF EXISTING UNDERGROUND UTILITIES. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. CONTACT U-LOCC (1-800-632-4848) PRIOR TO DIGGING.
- CONTRACTOR TO VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. CARE SHALL BE TAKEN TO PREVENT DAMAGE TO EXISTING UTILITIES DURING CONSTRUCTION. ANY DAMAGE TO THESE UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR TO COORDINATE WITH OTHER UTILITY COMPANIES TO PREVENT CONFLICTS (I.E., PIPE CROSSINGS) WHEN LAYING PIPE. SOME UTILITIES MAY NEED TO BE ADJUSTED IN FIELD. CONTACT ENGINEER IMMEDIATELY IF SUCH A CASE ARISES.
- USE WYES, BENDS & TEES AS NECESSARY FOR UTILITY CONSTRUCTION.
- MINIMUM COVER OVER ALL WATER LINES IS TO BE 3'.
- MINIMUM SEPARATION DISTANCES FOR SANITARY SEWER LINES FROM:
 - WATER LINES - 18" VERTICAL OR 10' HORIZONTAL
 - STORM SEWERS - 12" VERTICAL
- D.I.P. WITH MECHANICAL JOINT ENDS MAY BE SUBSTITUTED WHERE SEPARATION DISTANCES BETWEEN THE SANITARY SEWER LINE AND WATER LINE OR STORM SEWER CANNOT BE MAINTAINED. PIPE MUST BE LAID SUCH THAT FULL SECTIONS OF PIPE ARE CENTERED ON THE CROSSING POINT & EXTEND A DISTANCE OF 10' ON EACH SIDE OF THE POINT OF CROSSING.
- WATER AND SEWER SERVICE LATERALS ARE SHOWN AT ANTICIPATED LOCATIONS. CONTRACTOR SHALL COORDINATE FINAL LOCATIONS WITH DEVELOPER.
- CONTRACTOR TO PROVIDE ALL EROSION CONTROL MEASURES AS REQUIRED BY STATE AND LOCAL AUTHORITIES.
- ALL TAP FEES FOR WATER METER, SANITARY SEWER, GAS, GAS, ELECTRICAL, ETC. TO BE PAID BY GENERAL CONTRACTOR.
- CONTRACTOR TO COORDINATE LOCATIONS OF ALL SITE UTILITIES (GAS LINES AND METERS, ELECTRIC LINES AND METERS, CABLEVISION, ETC. WITH THE APPROPRIATE UTILITY COMPANY.

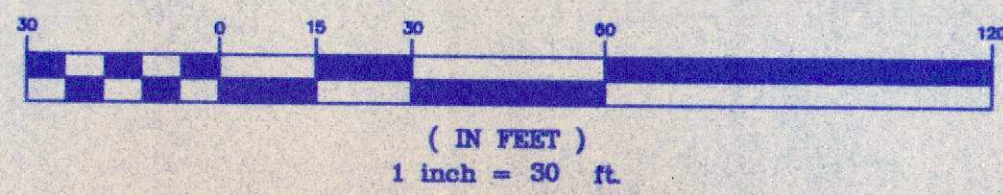


WATER CONNECTION DETAILS
NOT TO SCALE

NOTES:

- INSTALLATION, MATERIALS, AND DEVICES SHALL CONFORM TO THE WATER AND SEWER AUTHORITY OF CABARRUS COUNTY (WSACC) SPECIFICATIONS AND REQUIREMENTS.
- WATER PIPE SHALL BE PVC C-900 SDR 14 PVC OR PRESSURE CLASS 350 DIP C-151, WITH MIN. 36" COVER. SEWER PIPE SHALL BE SDR 35 PVC WITH MIN. 3" COVER MAXIMUM 18 FT. COVER. D.I.P. PRESSURE CLASS 350 SHALL BE INSTALLED WHERE FINISHED COVER EXCEEDS 18 FT. WITH TYPE II BEDDING.
- ALL VAULTS TO BE BELOW GRADE AND HAVE 4" DRAINLINES THAT HAVE POSITIVE DRAIN TO DAYLIGHT.

GRAPHIC SCALE

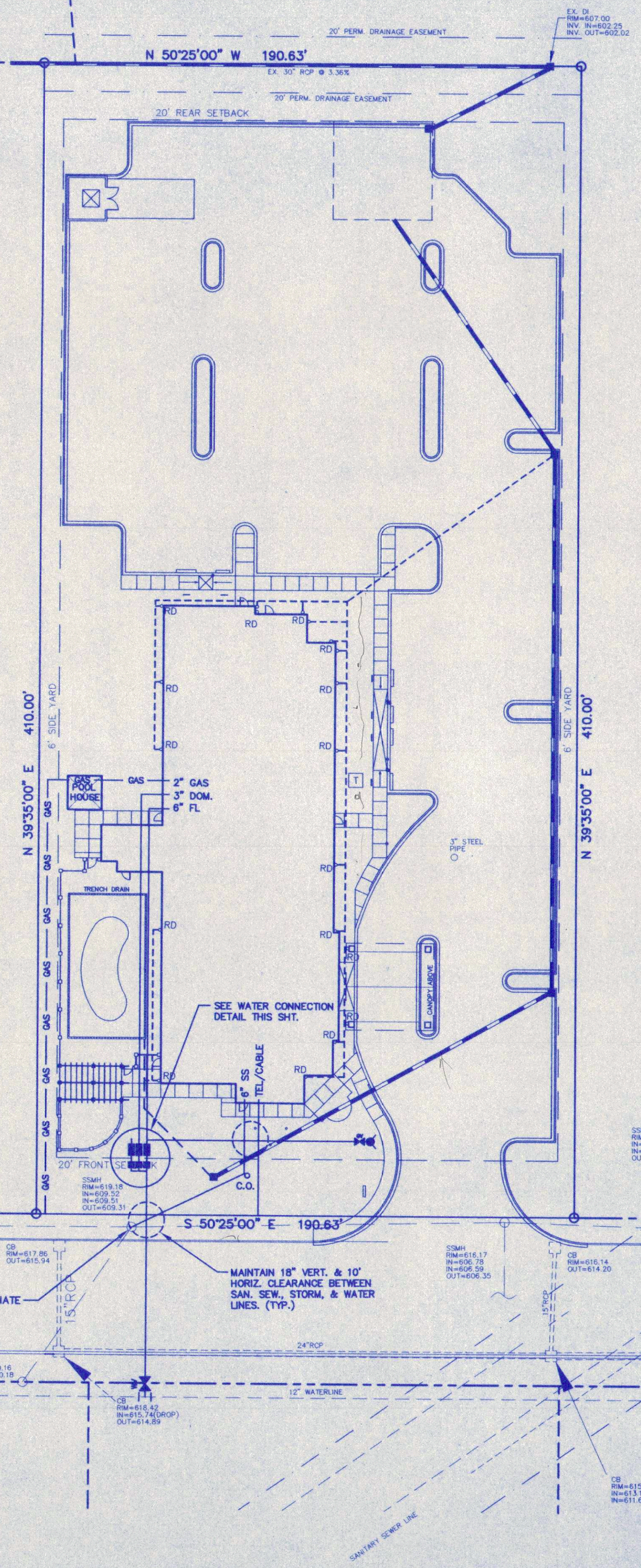


LOT 14

LOT 12

SEE ARCHITECTURAL PLUMBING FLOOR PLANS FOR EXACT LOCATION OF 6" SANITARY SEWER SERVICE TO BLDG.

SEE ARCHITECTURAL PLUMBING FLOOR PLANS FOR EXACT LOCATION OF 3" & 1 1/4" DOM. AND 6" FIRE LINES TO BLDG.

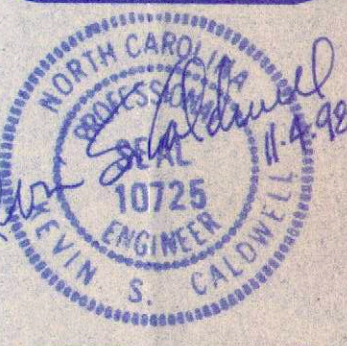


- NOTE:**
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 - WSACC TO SET METERS AND CONTRACTOR TO SET D.C.V.A. AND B.F.P.
 - CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING 12" WATERLINE

GEOSCIENCE GROUP, INC.
 800-4-Charlotte Road
 Charlotte, NC 28217
 704-525-2003
 704-525-2051 (fax)

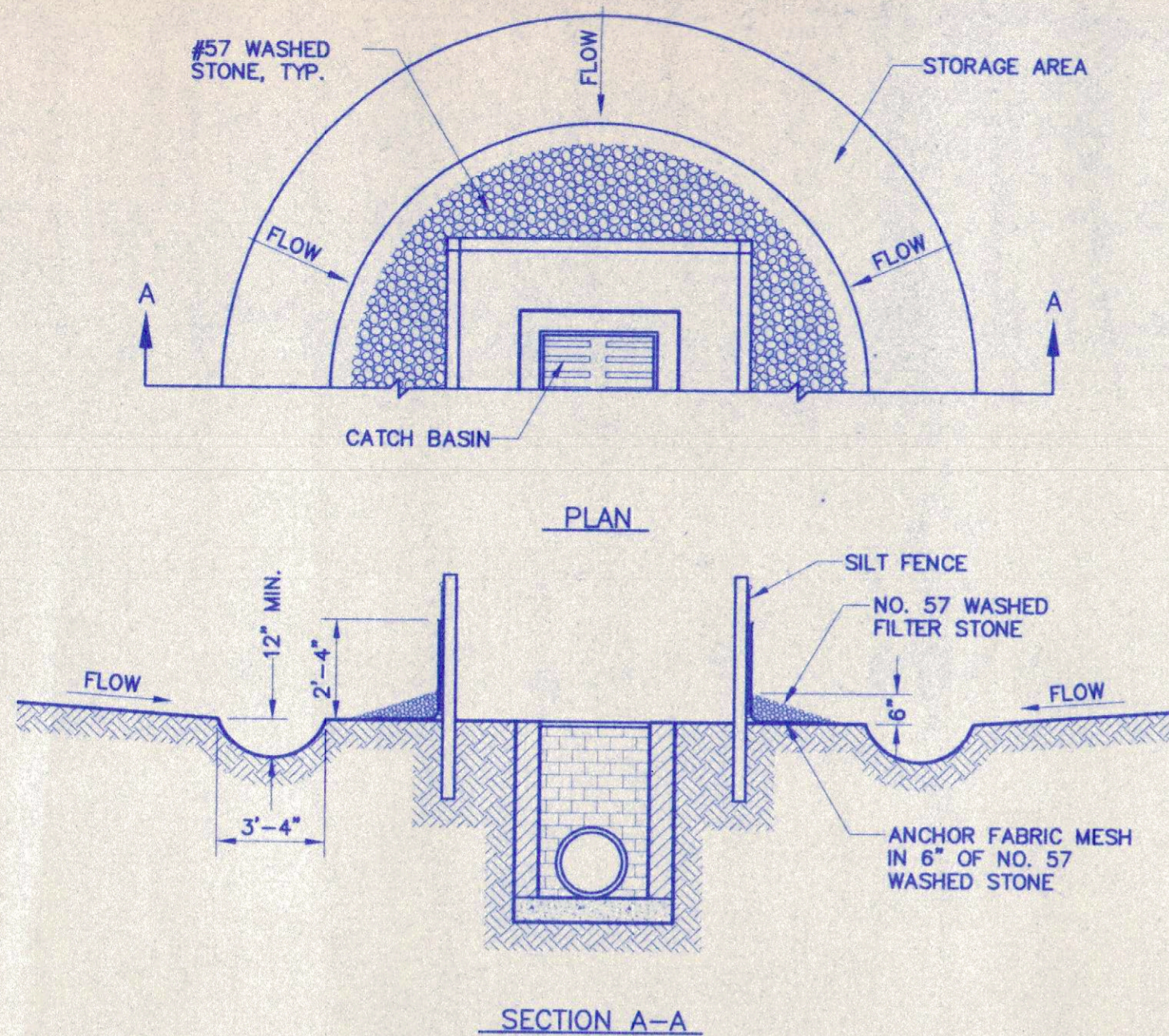
DATE	
REV.	
PROJECT NUMBER	
P.O. #	
PROJECT FILE	
PROJECT NUMBER	
DATE	
SCALE	

HOLIDAY INN EXPRESS
 CONCORD, NORTH CAROLINA



UTILITY PLAN

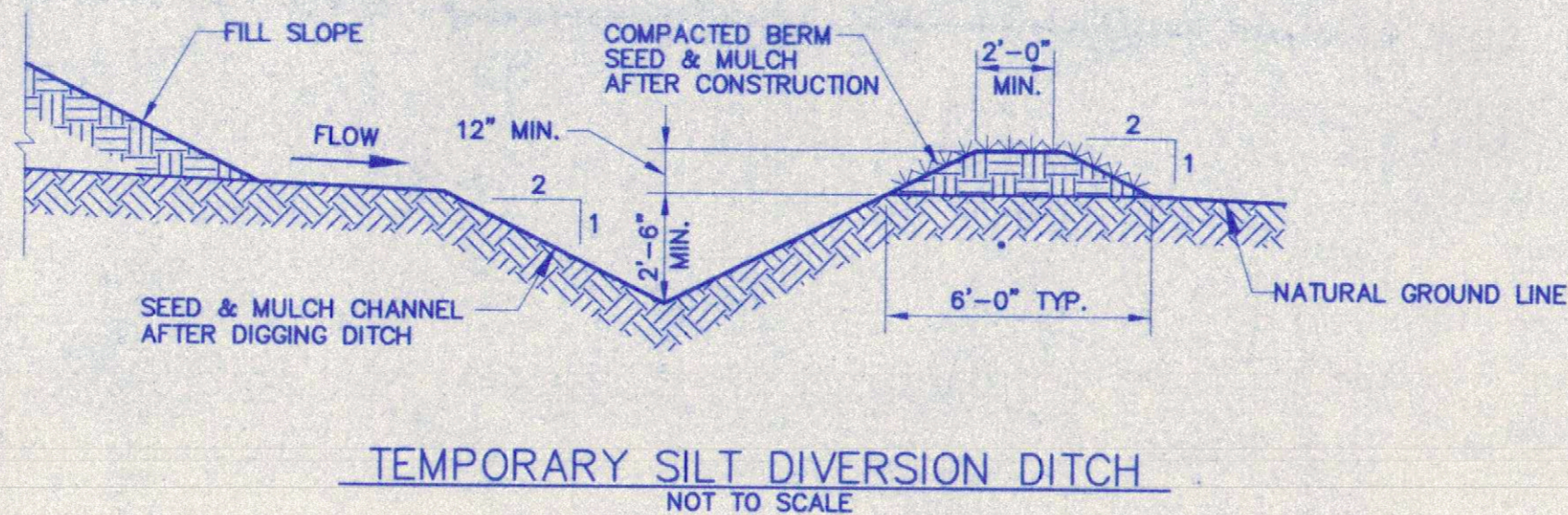
3/6



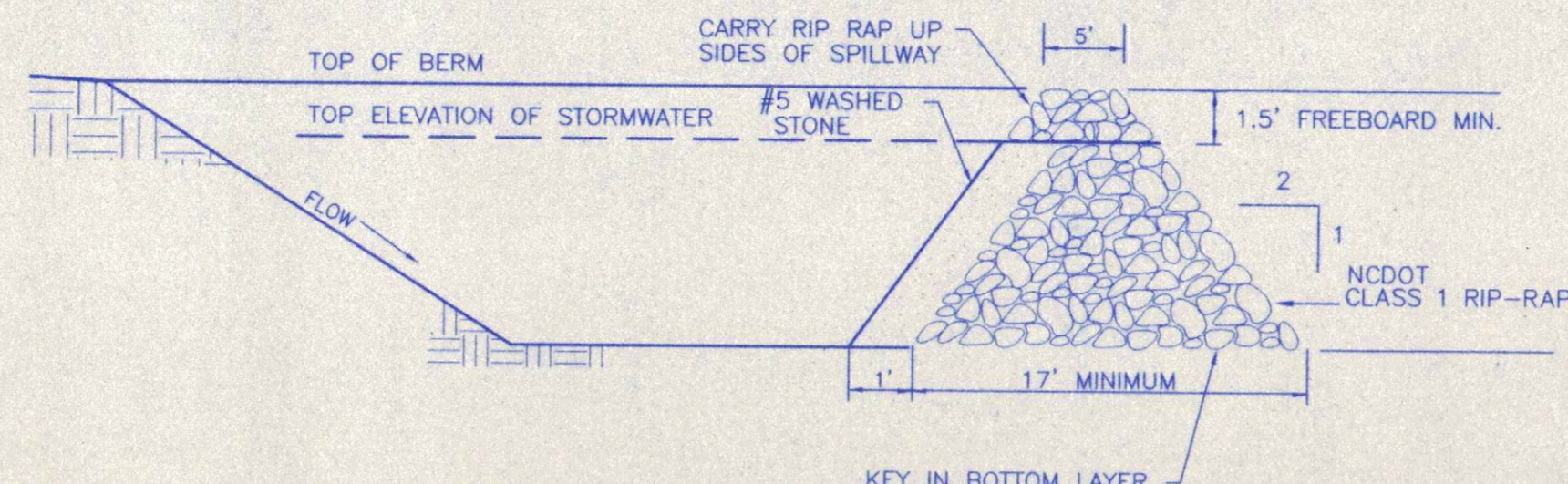
NOTES:

1. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
2. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
3. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION SHALL BE MINIMIZED.
4. THE SEDIMENT TRAP SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
5. SILT FENCE INSTALLED SHALL BE IN ACCORDANCE WITH CITY/COUNTY OF CONCORD/CABARRUS STANDARDS.
6. CLEAN THE STORM DRAIN LINES WITH WATER PRESSURE PRIOR TO ACCEPTANCE, BUT AFTER SILT STABILIZATION.

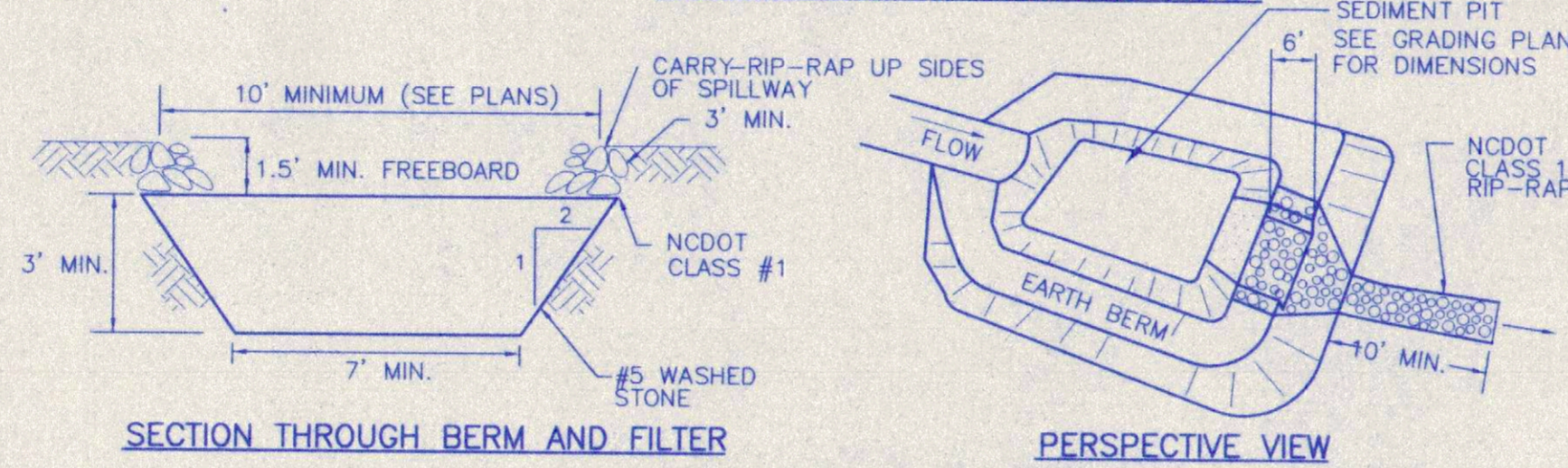
TEMPORARY INLET PROTECTION
NOT TO SCALE



TEMPORARY SILT DIVERSION DITCH
NOT TO SCALE



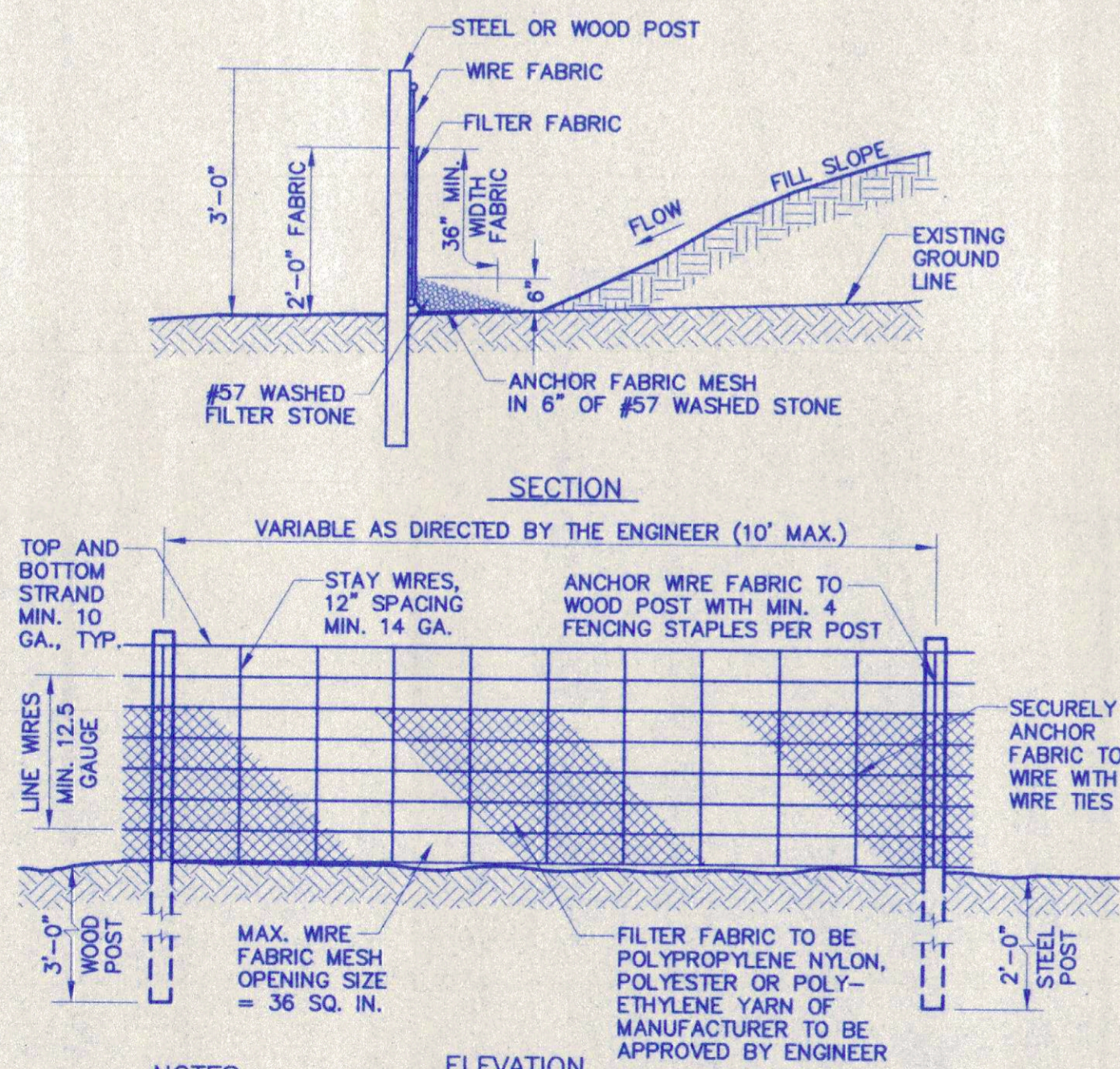
SECTION THROUGH BASIN AND FILTER



SECTION THROUGH BERM AND FILTER

PERSPECTIVE VIEW

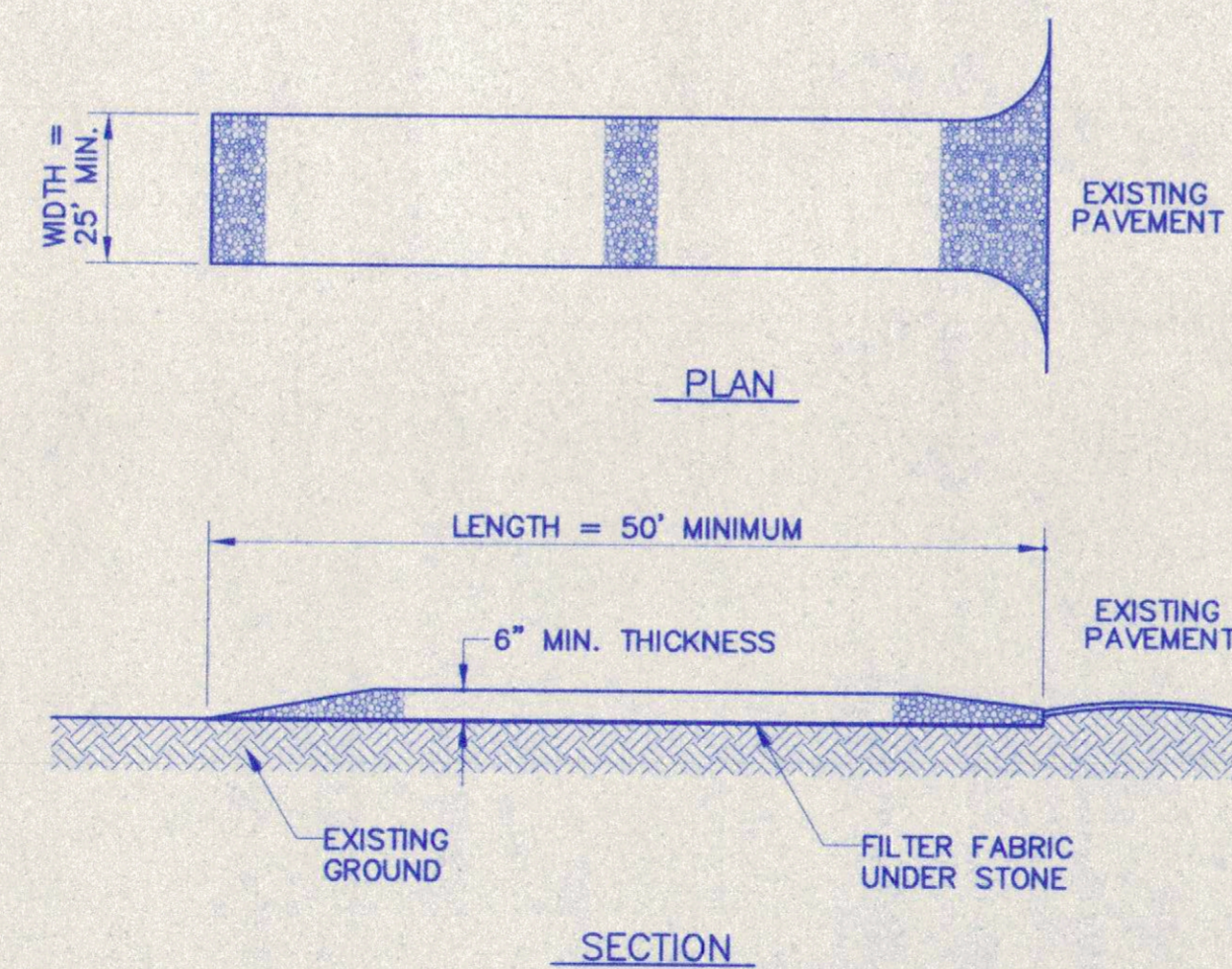
RIP RAP FILTER BASIN
NOT TO SCALE



NOTES:

1. THE CONTRACTOR SHALL MAINTAIN ALL SILT FENCING BY REMOVING AND DISPOSING OF SILT ACCUMULATIONS AS DIRECTED BY THE ENGINEER. FILTER FABRIC SHALL BE REPLACED WHEN IT HAS DETERIORATED TO SUCH EXTENT THAT IT REDUCES THE EFFECTIVENESS OF THE SILT FENCE.
2. FILTER FABRIC SHALL HAVE A MINIMUM TENSILE STRENGTH (20% MAX. ELONGATION) OF 30lbs/LIN. IN., WIRE FABRIC REQUIRED.
3. IF EXTRA STRENGTH FABRIC IS UTILIZED (MIN. TENSILE STRENGTH = 50 lbs/LIN. IN. @ MAX. 20% ELONGATION), WIRE FABRIC IS OPTIONAL, MAXIMUM POST SPACING = 6 FEET.
4. POSTS SHALL BE 4" DIA. PINE, 2" DIA. OAK OR 1.33 LB/LF STEEL UNLESS OTHERWISE APPROVED BY ENGINEER.
5. ALL SILT FENCING ON THIS PROJECT TO BE WIRE REINFORCED. WOOD POSTS ARE NOT RECOMMENDED, HOWEVER IF WOOD POSTS ARE USED, THE SPACING BETWEEN POSTS IS NOT TO EXCEED 6 FEET. INSTALL SILT FENCE ALONG BOTTOM OF SLOPE AND NOT UP THE SLOPE TO AVOID CONCENTRATING FLOWS.

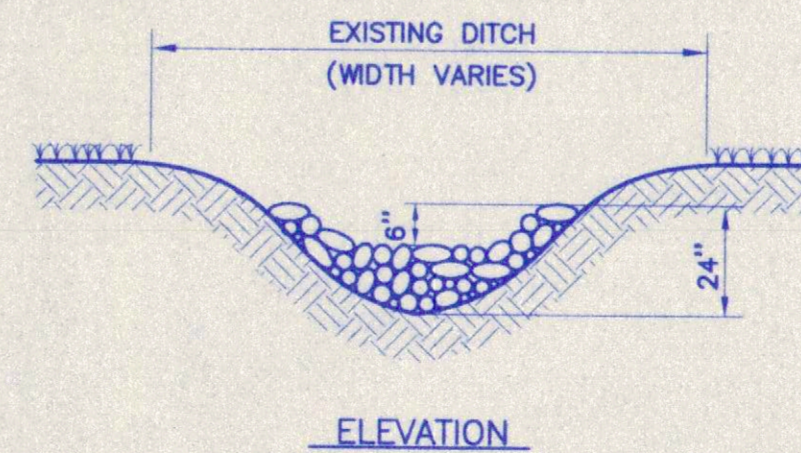
TEMPORARY SILT FENCE
NOT TO SCALE



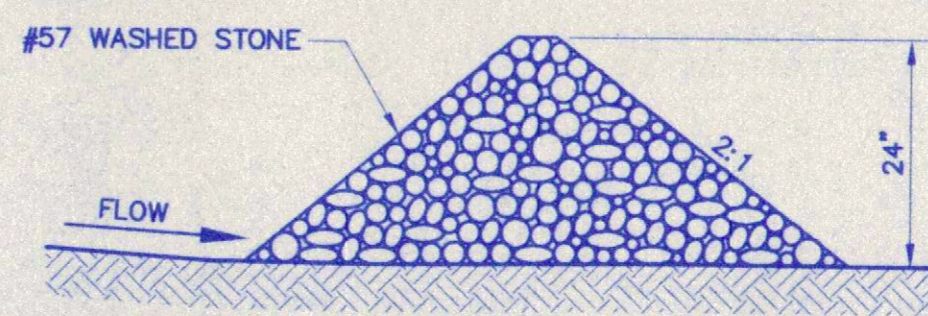
NOTES:

1. A STABILIZED PAD OF CRUSHED STONE SHALL BE LOCATED WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM A PUBLIC STREET.
2. STONE TO BE NO. 57 FILTER STONE.
3. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC STREETS OR EXISTING PAVEMENT. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
4. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC STREETS MUST BE REMOVED IMMEDIATELY.
5. WHEN NECESSARY, WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTERING A PUBLIC STREET. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN.
6. FILTER FABRIC SHALL BE MIRAFI 500 OR EQUAL.

STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE



ELEVATION



SECTION

TEMPORARY SILT CHECK DAM
NOT TO SCALE

PERMANENT SEEDING SCHEDULE - MIXTURE #2M

Species	Rate (lb/acre)
Tall fescue	40
Crown vetch	10
Korean lespedeza	10
Redtop	5

Seeding note
If occasional mowing is desired, substitute 20 lb/acre sericea lespedeza

Nurse plants
Between May 1 and Aug. 15 add 10 lb/acre German millet or 15 lb/acre Sudangrass. Prior to May 1 or after Aug. 15, add 40 lb/acre rye (grain).

Seeding dates	Best	Possible
Below 2500 ft:	Aug. 15-Sept. 1 Mar. 1-Apr. 1	July 25-Sept. 15 Mar. 1-May 10
Above 2500 ft:	July 25-Aug. 15 Mar. 20-Apr. 20	July 15-Aug. 30 Mar. 5-May 15

Complete seeding earlier in the fall, and start later in spring on north and east facing slopes.

Soil amendments
Follow recommendations of soil tests, or apply 4,000 lb/acre ground agricultural limestone and 1,000 lb/acre 5-10-10 fertilizer.

Mulch
Apply 4,000-5,000 lb/acre grain straw or equivalent cover of another suitable mulching material. Anchor mulch by tacking with asphalt, riving or netting. Netting is the preferred anchoring method on steep slopes.

Maintenance
Do not mow crown vetch. Refertilize in the second year unless growth is fully adequate. Reseed, fertilize and mulch damaged areas immediately.

TEMPORARY SEEDING-LATE WINTER/EARLY SPRING

Species	Rate (lb/acre)
Rye (grain)	120
Annual lespedeza (Kobe in Piedmont and Coastal Plain, Korean in Mountains)	50

Omit annual lespedeza when duration of temporary cover is not to extend beyond June.

Seeding dates	Mountains - Above 2500 ft:	Piedmont -	Coastal Plain -
	Feb. 15-May 15	Feb. 1-May 1	Jan. 1-May 1
			Dec. 1-Apr. 15

Soil amendments
Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer.

Mulch
Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

Maintenance
Refertilize if growth is not fully adequate. Reseed, refertilize and mulch immediately following erosion or other damage.

TEMPORARY SEEDING SCHEDULE - SUMMER

Species	Rate (Lb/Acre)
German Millet	40

In the Piedmont and Mountains, a small-stemmed Sudangrass may be substituted at a rate of 50 lb/acre.

Seeding Dates	Mountains	Piedmont	Coastal Plain
	May 15 - August 15	May 1 - August 15	April 15 - August 15

Soil Amendments
Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer.

Mulch
Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

Maintenance
Refertilize if growth is not fully adequate. Reseed, refertilize and mulch immediately following erosion or other damage.

DATE	REV.

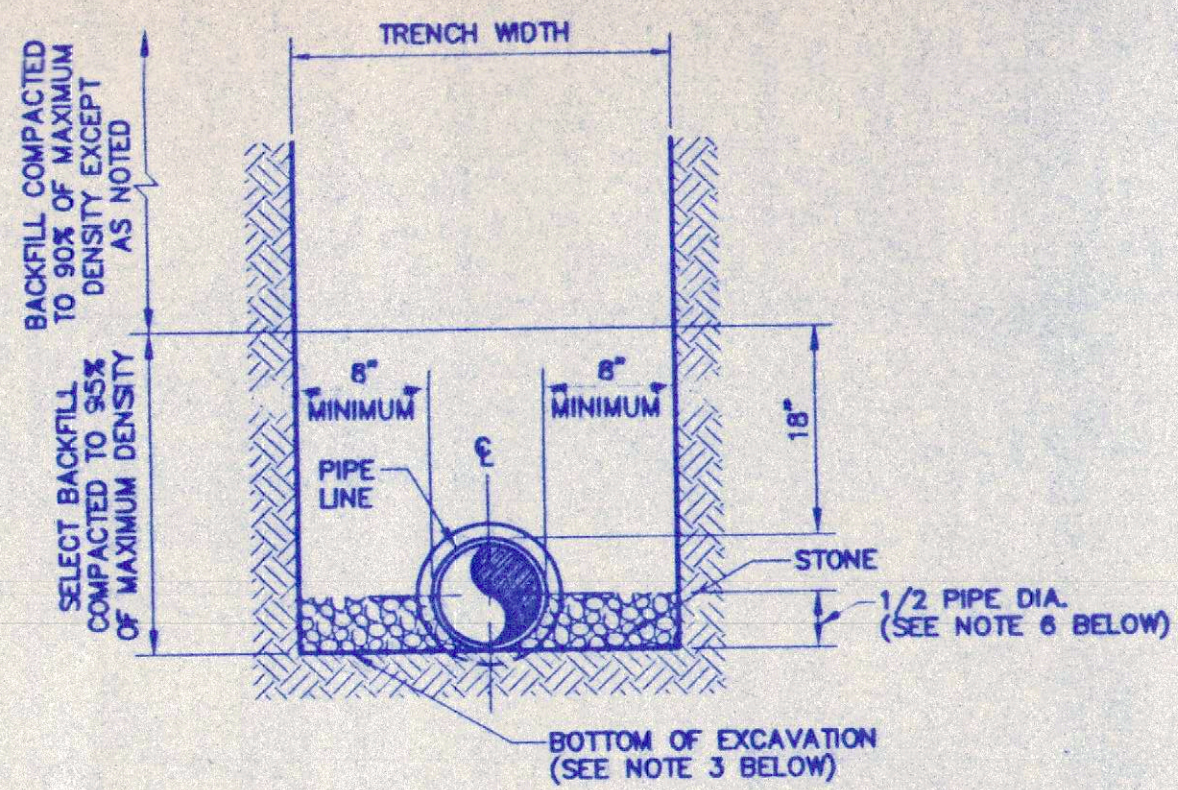
GEOSCIENCE GROUP, INC.
500-K Clanton Road
Charlotte, NC 28217
704-525-2003
704-525-2005 (fax)
1/17/98

**HOLIDAY INN EXPRESS
CONCORD, NORTH CAROLINA**

10725 ENGINEER
S. CALDWELL

EROSION CONTROL DETAILS

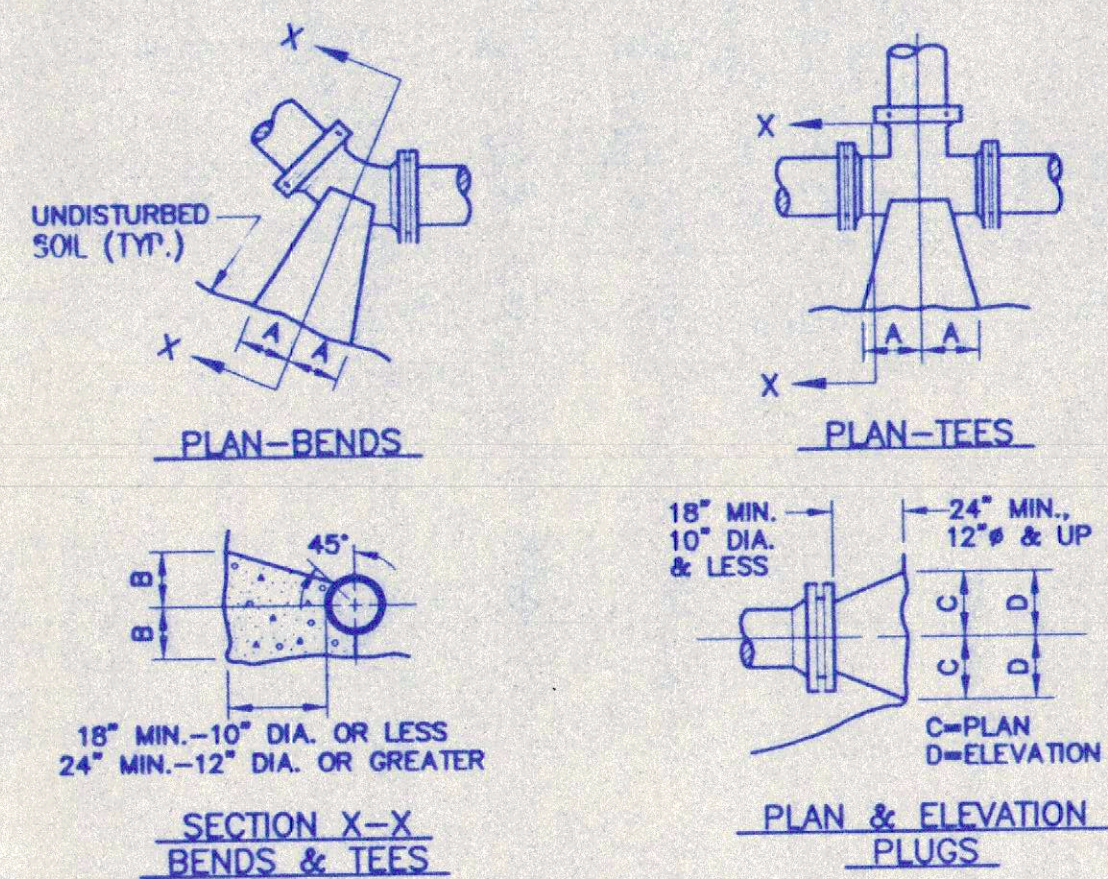
5/0



NOTES:

- BACKFILL TO 95% OF MAXIMUM DENSITY WHERE EXCAVATIONS CUT THROUGH PAVEMENTS, CURBS, DRIVEWAYS AND SIDEWALKS, AND UNDER OR ADJACENT TO STRUCTURES.
- STONE TO BE SIZE 1/2" TO 1-1/2", WELL TAMPED.
- STONE IS REQUIRED TO 8" BELOW PIPE WHERE WET CONDITIONS OR ROCK IS ENCOUNTERED, ONLY AS DIRECTED.
- HAND SHAPE TRENCH BOTTOM FOR LOWER QUADRANT OF PIPE AND BELLS.
- PROVIDE MINIMUM 3"-0" COVER OVER PIPE.
- STONE TO 1/2 PIPE DIA. NOT REQUIRED FOR C-900 P.V.C. OR DUCTILE IRON PIPE.

STANDARD WATER LINE TRENCH
NOT TO SCALE



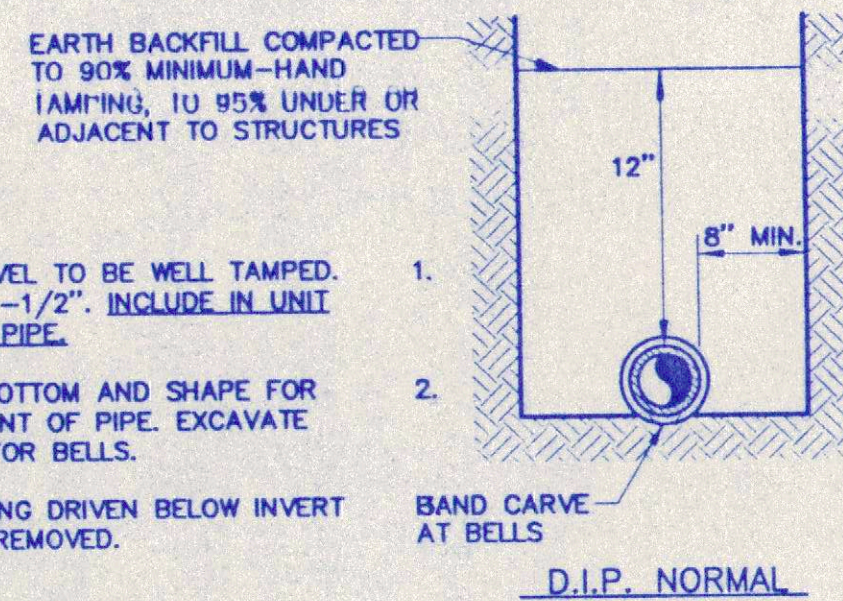
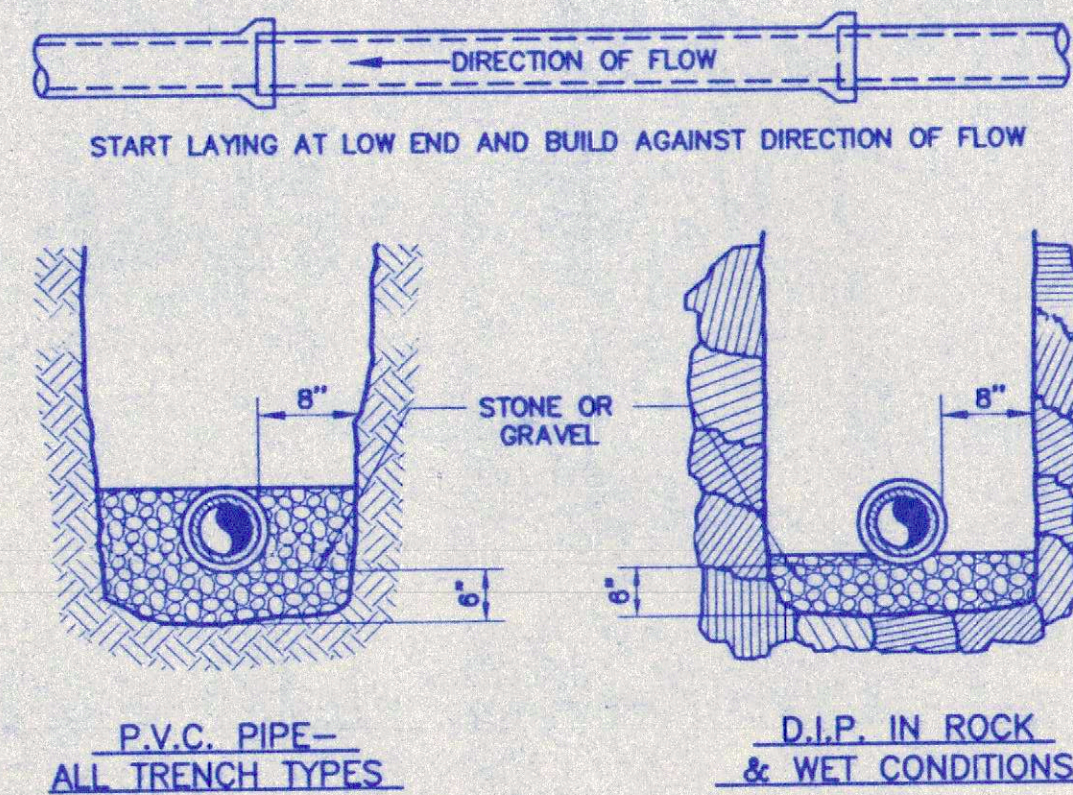
PIPE SIZE	90° BEND		45° BEND		22-1/2° BEND		11-1/4° BEND		TEE		PLUG	
	A	B	A	B	A	B	A	B	A	B	C	D
4"	18"	12"	10"	13"	7"	10"	7"	10"	12"	14"	13"	6"
6"	18"	12"	10"	13"	7"	10"	7"	10"	12"	14"	19"	9"
8"	24"	18"	13"	18"	10"	12"	10"	12"	16"	18"	25"	11"
10"	28"	22"	15"	22"	12"	15"	12"	15"	20"	22"	31"	14"
12"	32"	28"	19"	28"	14"	18"	14"	18"	22"	28"	37"	17"

2000 PSF SOIL (SAND & GRAVEL WITH CLAY)

NOTES:

- BASED ON 200 PSI STATIC PRESSURE PLUS AWWA WATER HAMMER ALLOWANCE.
- ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED GROUND.
- THRUST BLOCKS TO BE USED AT ALL LINES OPERATING UNDER PRESSURE.
- KEEP ALL PIPING JOINTS CLEAR OF CONCRETE THRUST BLOCKS.

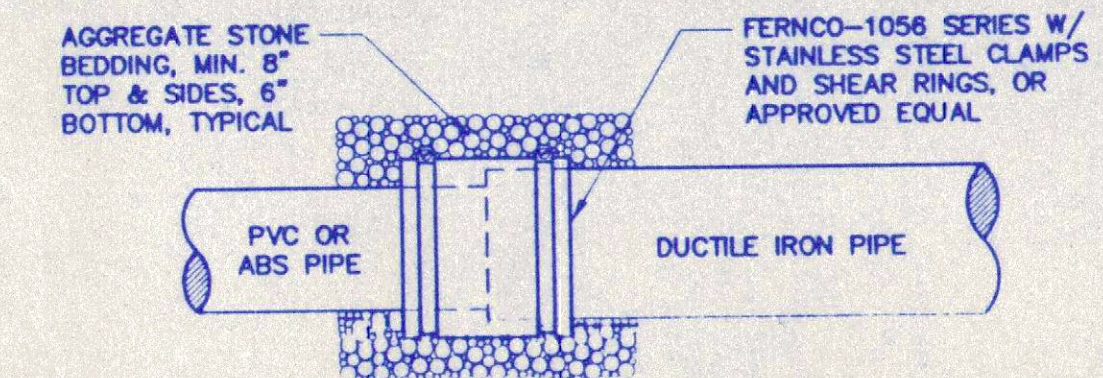
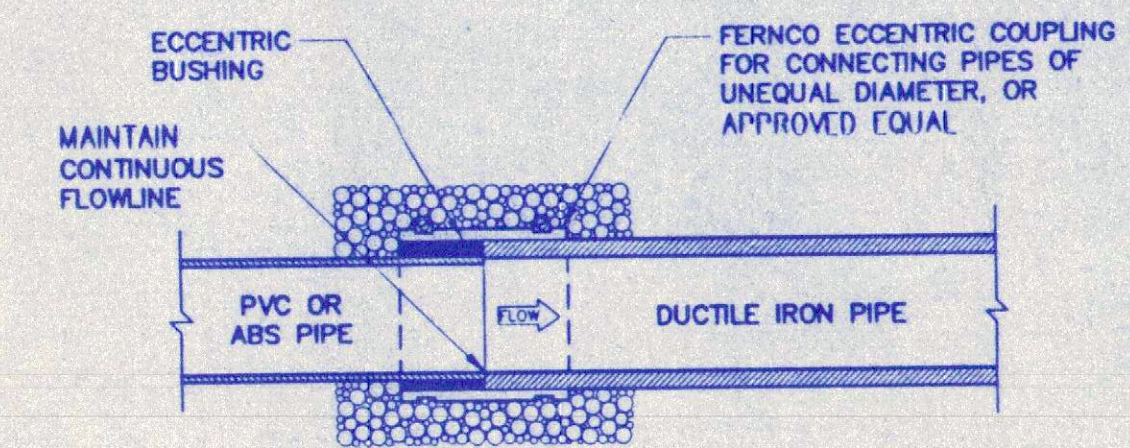
THRUST BLOCKING DETAIL
NOT TO SCALE



NOTES:

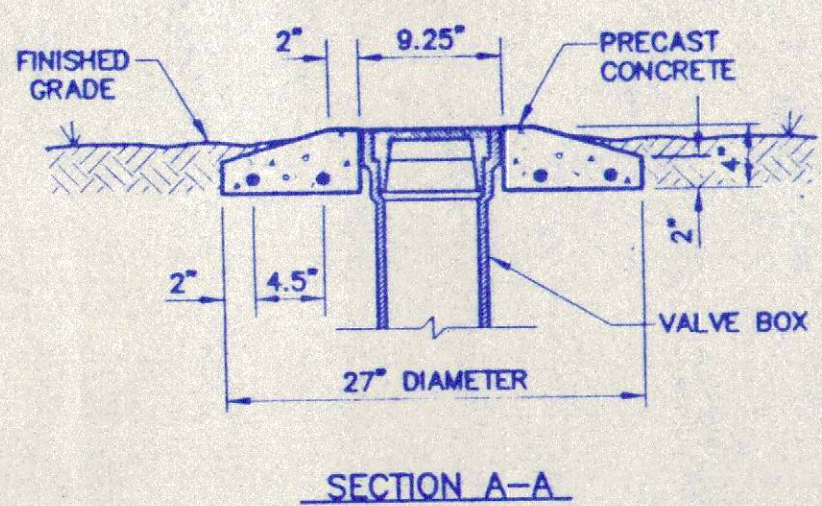
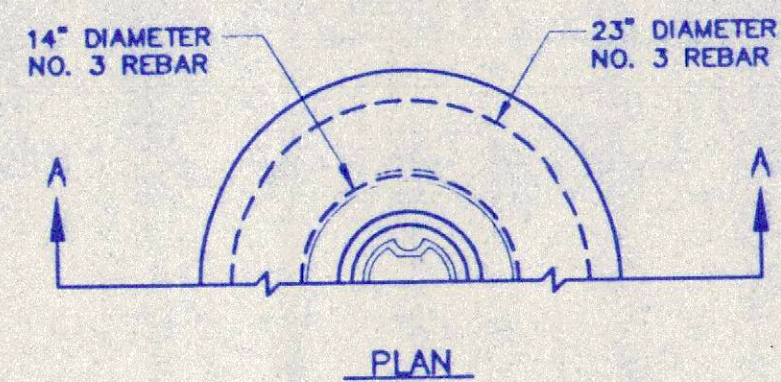
- STONE OR GRAVEL TO BE WELL TAMPED. SIZE 1/2" TO 1-1/2". INCLUDE IN UNIT PRICE BID FOR PIPE.
- HAND CARVE BOTTOM AND SHAPE FOR LOWER QUADRANT OF PIPE. EXCAVATE ADDITIONALLY FOR BELLS.
- TRENCH SHEETING DRIVEN BELOW INVERT MUST NOT BE REMOVED.

STANDARD SEWER LINE TRENCH
NOT TO SCALE

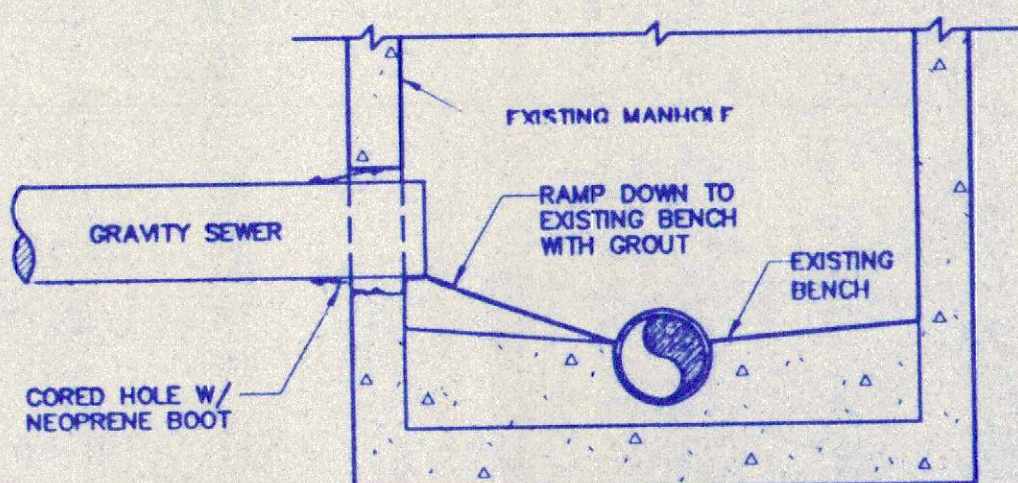


NOTE: SEE STANDARD SEWER LINE TRENCH DETAIL FOR PIPE BEDDING BEYOND COUPLING.

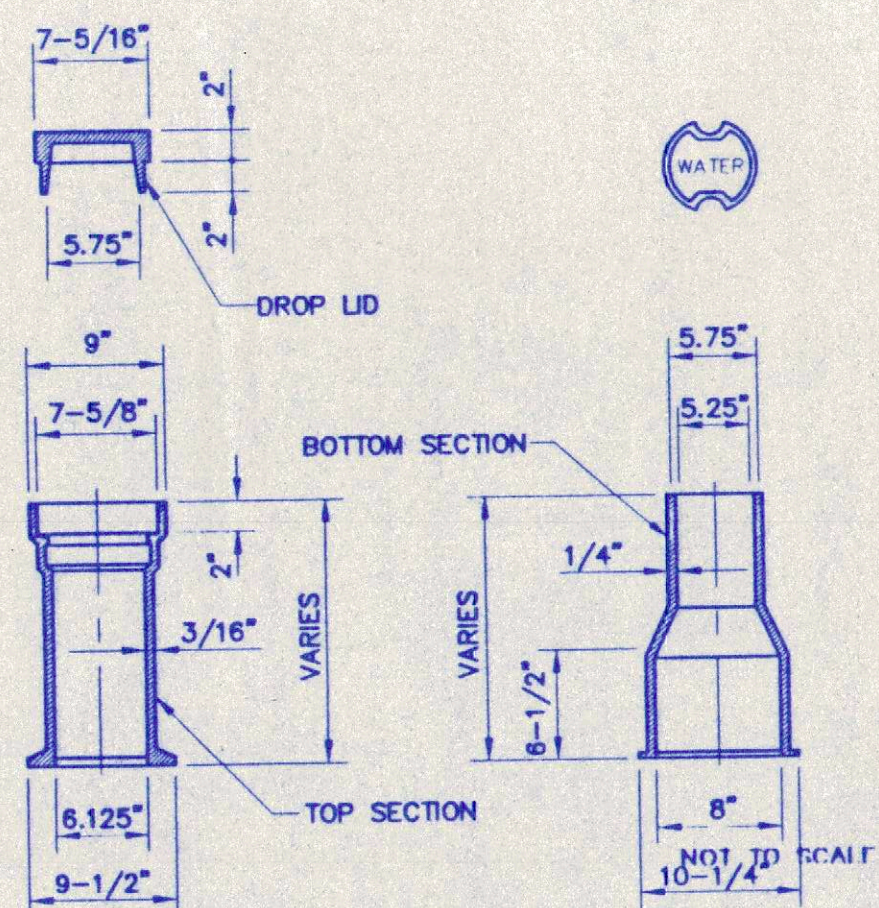
STANDARD SEWER LINE COUPLING
NOT TO SCALE



STANDARD VALVE BOX PROTECTOR
NOT TO SCALE



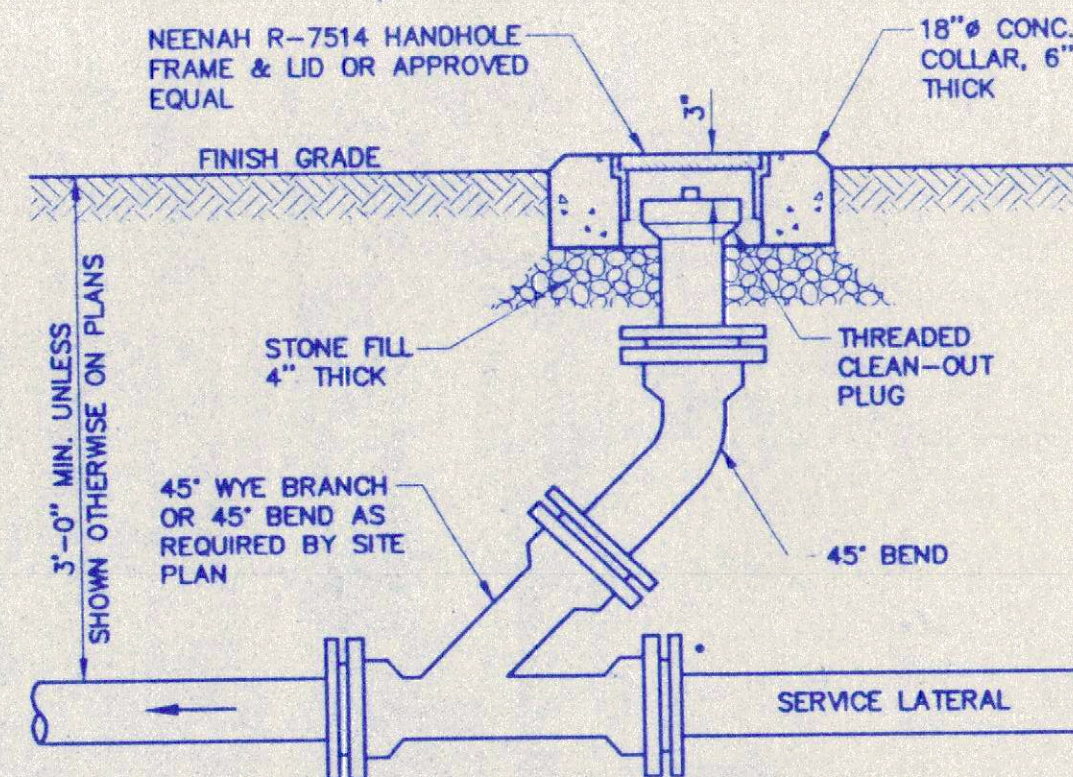
STANDARD SEWER LINE CONNECTION TO EXISTING MANHOLE
NOT TO SCALE



NOTES:

- LID CASTING TO BE TYLER MANUFACTURE NO. 6850—SERIES, 5-1/4" DROP LID OR APPROVED EQUAL.
- BODY CASTING TO BE TYLER MANUFACTURE NO. 6855—SERIES, 5-1/4" SHAFT, SLIP OR SCREW TYPE, OR APPROVED EQUAL.
- THIS VALVE BOX ACCOMMODATES 4" THRU 12" VALVES.

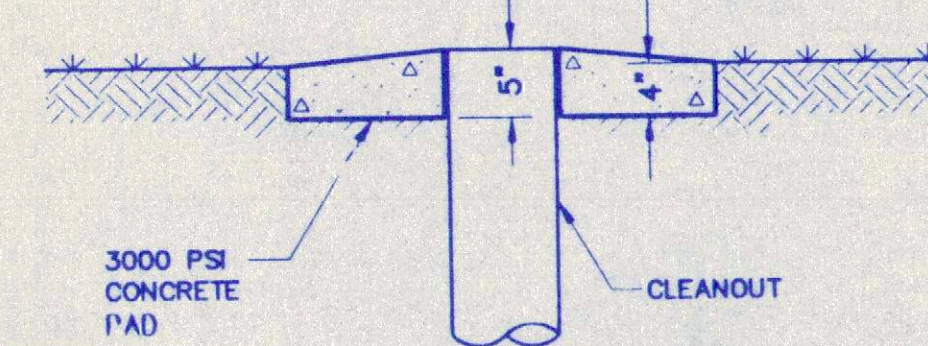
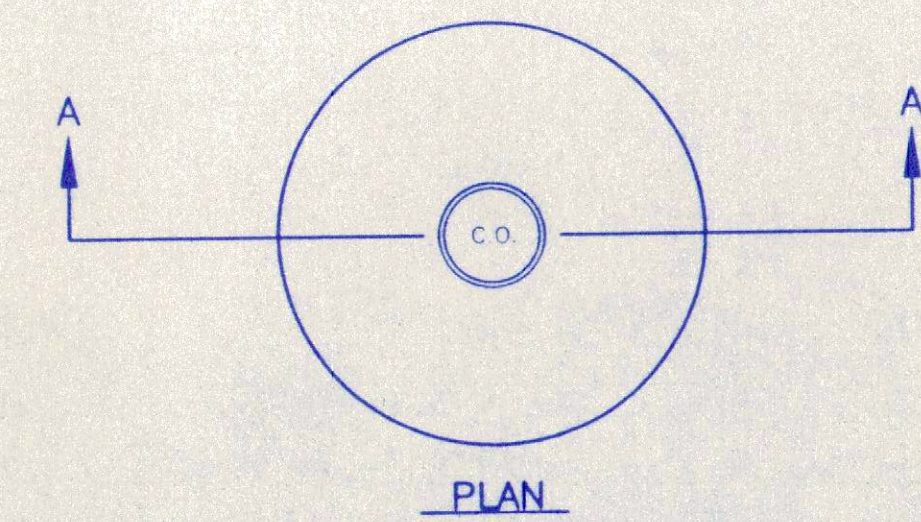
STANDARD THREE PIECE VALVE BOX
NOT TO SCALE



NOTES:

- CLEAN-OUT PIPE AND FITTINGS SHALL BE THE SAME DIAMETER AND MATERIAL AS THE SERVICE LATERAL.
- PROVIDE CLEAN-OUTS WHERE INDICATED ON THE PLANS.
- D.I.P. CLEAN-OUTS SHALL HAVE BRONZE—THREADED CLEAN-OUT PLUG.
- WHERE CLEAN-OUTS ARE INSTALLED ON PIPING UNDER PRESSURE, ALL JOINTS SHALL HAVE RETAINER GLANDS OR OTHER APPROVED METHOD OF RESTRAINT. ALL RISER PIPE, FITTINGS AND CLEAN-OUT PLUG SHALL BE WATER TIGHT AND RATED FOR THE PRESSURES PRESENT AT THE PARTICULAR POINT OF INSTALLATION.

SANITARY SEWER SERVICE LATERAL CLEAN-OUT DETAIL
NOT TO SCALE



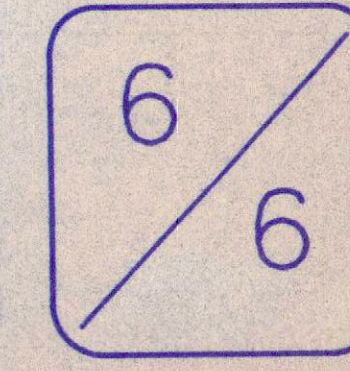
CLEANOUT PAD DETAIL
NOT TO SCALE

DATE	
REV	
PROJECT NO.	
DATE	
PROJECT NAME	
DATE	
PROJECT NO.	
DATE	
PROJECT NAME	
DATE	

CEBSOURCE GROUP, INC.
500-K Clinton Road
Charlotte, NC 28217
704-525-2003
704-525-2051 (fax)

HOLIDAY INN EXPRESS
CONCORD, NORTH CAROLINA

UTILITY DETAILS



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4.17 Toilet Stalls.

4.17.1 Location. Accessible toilet stalls shall be on an accessible route and shall meet the requirements of 4.17.

4.17.2 Water Closets. Water closets in accessible stalls shall comply with 4.16.

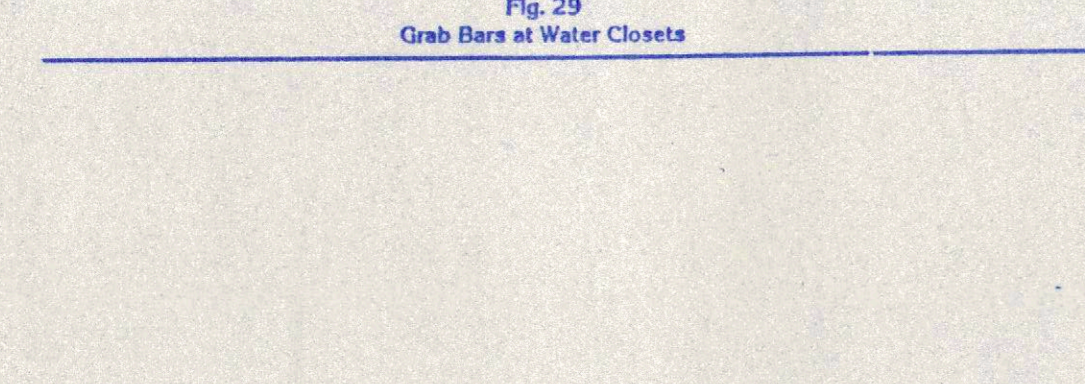
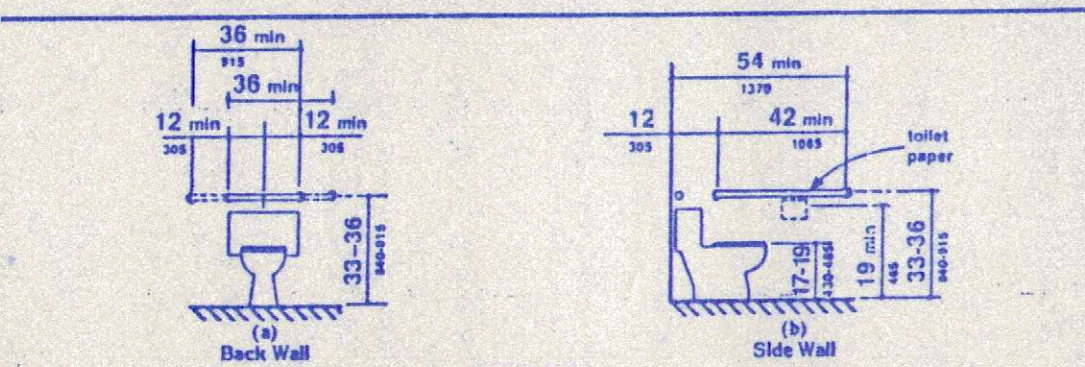
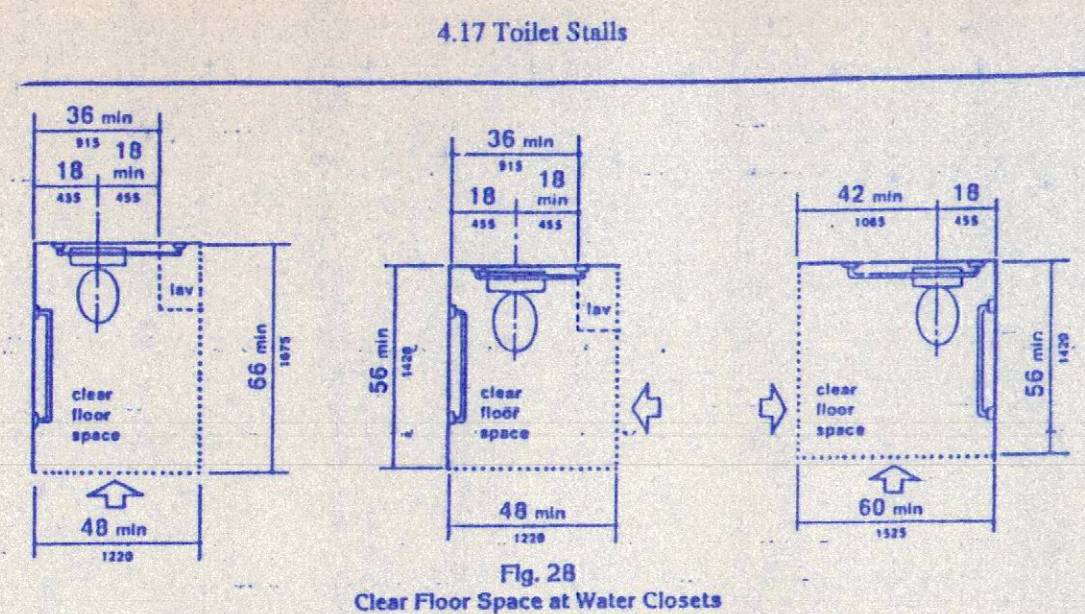
4.17.3 Size and Arrangement. The size and arrangement of the standard toilet stall shall comply with Fig. 30(a), *Standard Stall*. Standard toilet stalls with a minimum depth of 56 in (1420 mm) free Fig. 30(a) shall have wall-mounted water closets. If the depth of a standard toilet stall is increased at least 3 in (75 mm), then a floor-mounted water closet may be used. Arrangements shown for standard toilet stalls may be reversed to allow either a left- or right-hand approach. Additional stalls shall be provided in conformance with 4.23.4.

EXCEPTION: In instances of alteration work where provision of a standard stall (Fig. 30(a)) is technically infeasible or where plumbing code requirements preclude installing existing stalls to provide space, *either alternate stall (Fig. 30(b)) may be provided in lieu of the standard stall.*

4.17.4 Toe Clearances. In standard stalls, the front partition and at least one side partition shall provide a toe clearance of at least 9 in (230 mm) above the floor. If the depth of the stall is greater than 60 in (1525 mm), then the toe clearance is not required.

4.17.5 Doors. Toilet stall doors, including door hardware, shall comply with 4.13. If toilet stall approach is from the latch side of the stall door, clearance between the door side of the stall and any obstruction may be reduced to a minimum of 42 in (1065 mm) (Fig. 30).

4.17.6 Grab Bars. Grab bars complying with the length and positioning shown in Fig. 30(a), (b), (c), and (d) shall be provided. Grab bars may be mounted with any desired method as long as they have a gripping surface at the locations shown and do not obstruct the required clear floor area. Grab bars shall comply with 4.26.



TOILET STALLS & GRAB BARS

4.19 Lavatories and Mirrors.

4.19.1 General. The requirements of 4.19 shall apply to lavatory fixtures, vanities, and built-in lavatories.

4.19.2 Height and Clearances. Lavatories shall be mounted with the rim or counter surface no higher than 34 in (865 mm) above the finished floor. Provide a clearance of at least 29 in (735 mm) above the finish floor to the bottom of the apron. Knee and toe clearance shall comply with Fig. 31.

4.19.3 Clear Floor Space. A clear floor space 30 in by 48 in (760 mm by 1220 mm) complying with 4.2.4 shall be provided in front of a lavatory to allow forward approach. Such clear floor space shall adjoin or overlap an accessible route and shall extend a maximum of 19 in (485 mm) underneath the lavatory (see Fig. 32).

4.19.4 Exposed Pipes and Surfaces. Hot water and drain pipes under lavatories shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories.

4.19.5 Faucets. Faucets shall comply with 4.27.4. Lever-operated, push-type, and electronically controlled mechanisms are examples of acceptable designs. If self-closing valves are

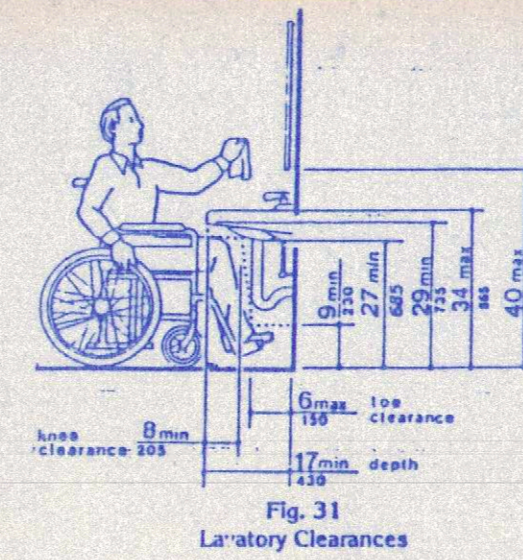


Fig. 31 Lavatory Clearances

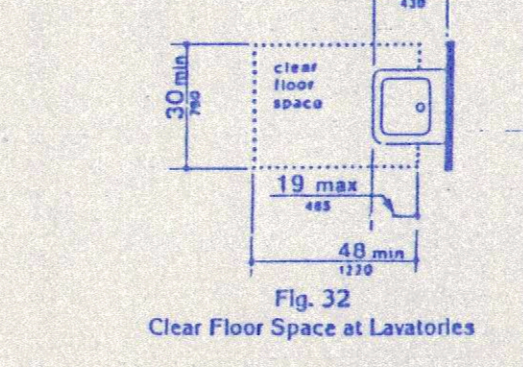


Fig. 32 Clear Floor Space at Lavatories

LAVATORIES & MIRRORS

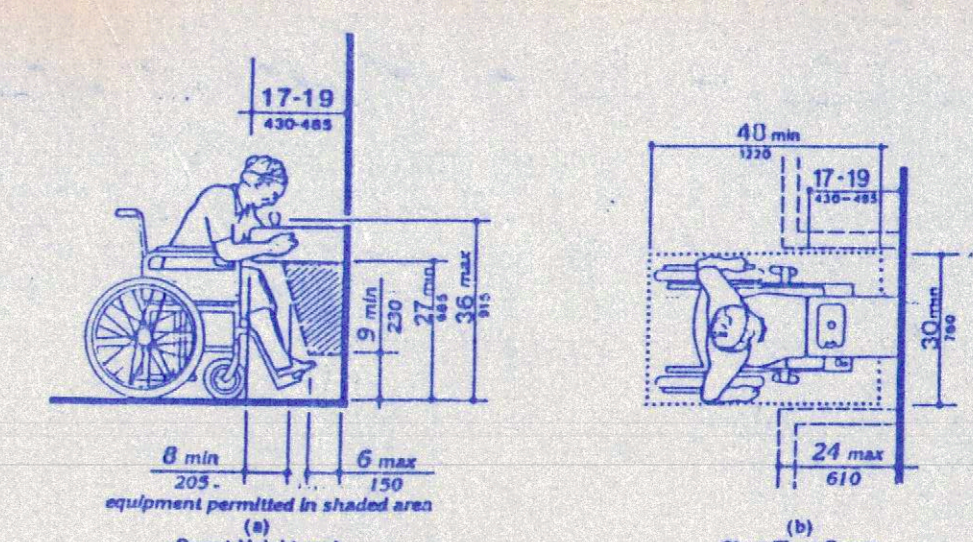


Fig. 27 Drinking Fountains and Water Coolers

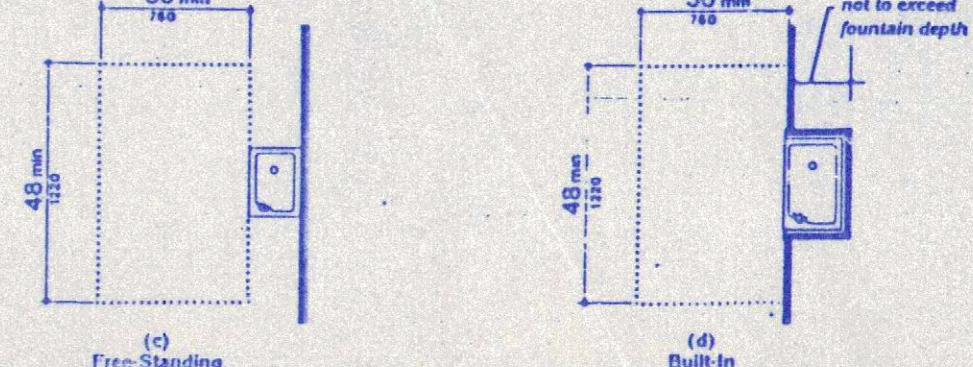


Fig. 27 Drinking Fountains and Water Coolers

WATER FOUNTAINS / COOLERS

4.20 Bathtubs.

4.20.1 General. Accessible bathtubs shall comply with 4.20.

4.20.2 Floor Space. Clear floor space in front of bathtubs shall be as shown in Fig. 33.

4.20.3 Seat. An in-tub seat or a seat at the head end of the tub shall be provided as shown in Fig. 33 and 34. The structural strength of seats and their attachments shall comply with 4.26.3. Seats shall be mounted securely and shall not slip during use.

4.20.4 Grab Bars. Grab bars complying with 4.26 shall be provided as shown in Fig. 33 and 34.

4.20.5 Controls. Faucets and other controls complying with 4.27.4 shall be located as shown in Fig. 34.

4.20.6 Shower Unit. A shower spray unit with a hose at least 60 in (1525 mm) long that can be used both as a fixed shower head and as a hand-held shower shall be provided.

4.20.7 Bathtub Enclosures. If provided, enclosures for bathtubs shall not obstruct controls or transfer from wheelchairs onto bathtub seats or into tubs. Enclosures on bathtubs shall not have tracks mounted on their rims.

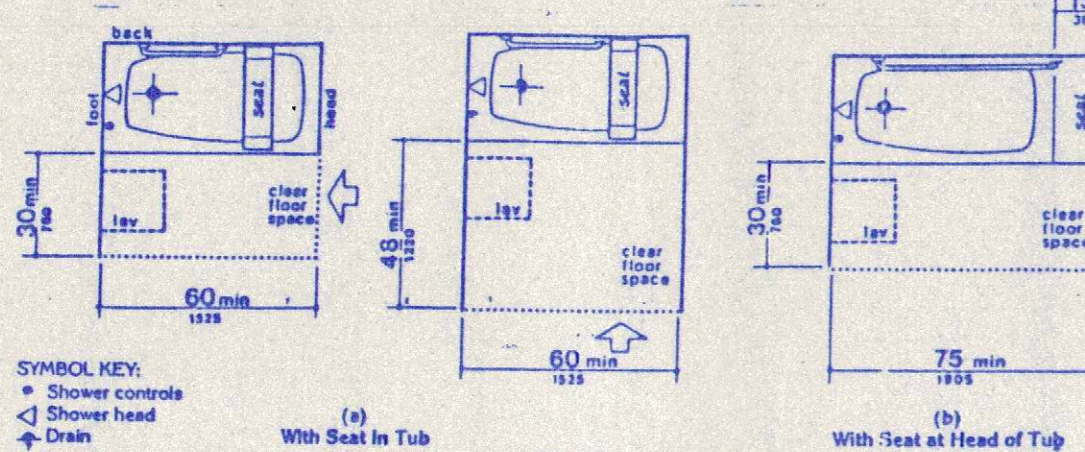


Fig. 33 Clear Floor Space at Bathtubs

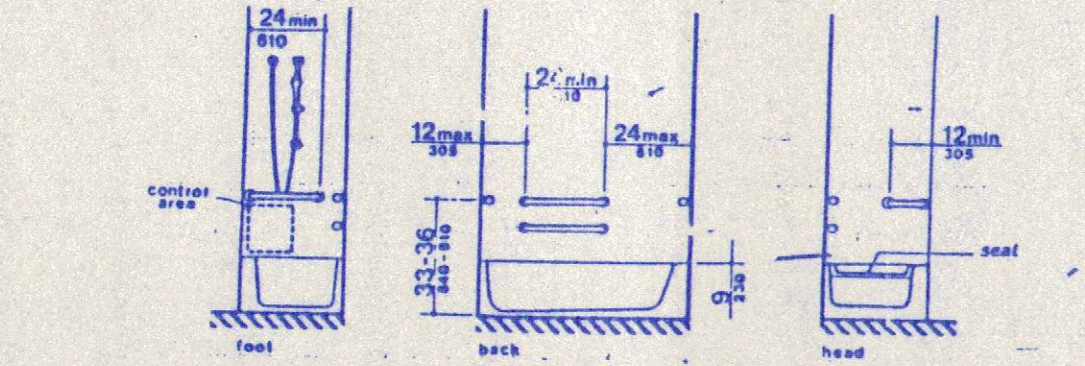


Fig. 34 Grab Bars at Bathtubs

BATHTUBS

4.21 Shower Stalls.

4.21.1 General. Accessible shower stalls shall comply with 4.21.

4.21.2 Size and Clearances. Except as specified in 9.1.2, shower stall size and clear floor space shall comply with Fig. 35(a) or (b). The shower stall in Fig. 35(a) shall be 36 in by 36 in (915 mm by 915 mm). Shower stalls required by 9.1.2 shall comply with Fig. 35(a).

(b) The shower stall in Fig. 35(b) will fit into the space required for a bathtub.

4.21.3 Seat. A seat shall be provided in shower stalls 36 in by 36 in (915 mm) and shall be as shown in Fig. 36. The seat shall be mounted 17 in to 19 in (430 mm to 485 mm) from the bathroom floor and shall extend the full depth of the stall. In a 36 in by 36 in (915 mm by 915 mm) shower stall, the seat shall be on the wall opposite the controls. Where a fixed seat is provided in a 30 in by 60 in (760 mm by 1525 mm) shower stall, it shall be a folding type and shall be mounted on the wall adjacent to the controls as shown in Fig. 37. The structural strength of seats and their attachments shall comply with 4.26.3.

4.21.4 Grab Bars. Grab bars complying with 4.26 shall be provided as shown in Fig. 37.

4.21.5 Controls. Faucets and other controls complying with 4.27.4 shall be located as shown in Fig. 37. In shower stalls 36 in by 36 in (915 mm by 915 mm), all controls, faucets, and the shower unit shall be mounted on the side wall opposite the seat.

4.21.6 Shower Unit. A shower spray unit with a hose at least 60 in (1525 mm) long that can be used both as a fixed shower head and as a hand-held shower shall be provided.

EXCEPTION: In unattended facilities where vandalism is a consideration, a fixed shower head mounted at 49 in (1220 mm) above the shower floor may be used in lieu of a hand-held shower head.

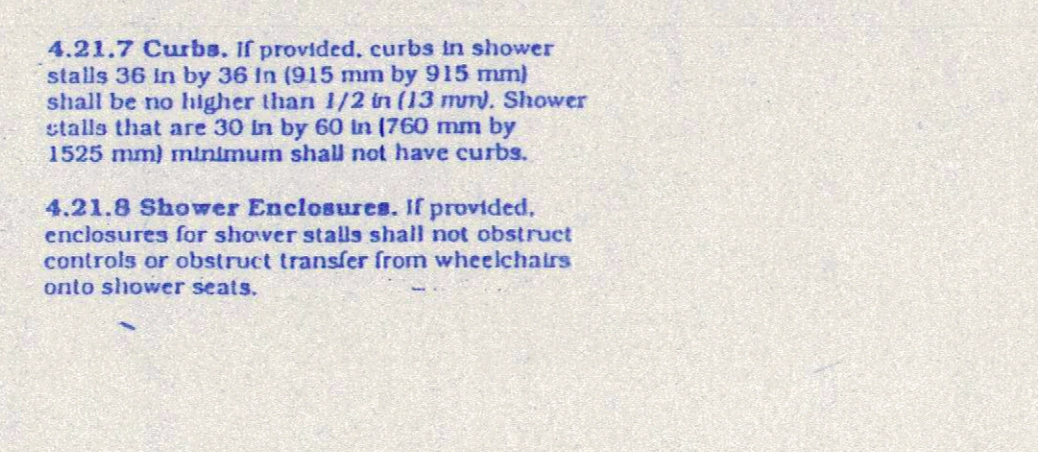


Fig. 35 Shower Size and Clearances

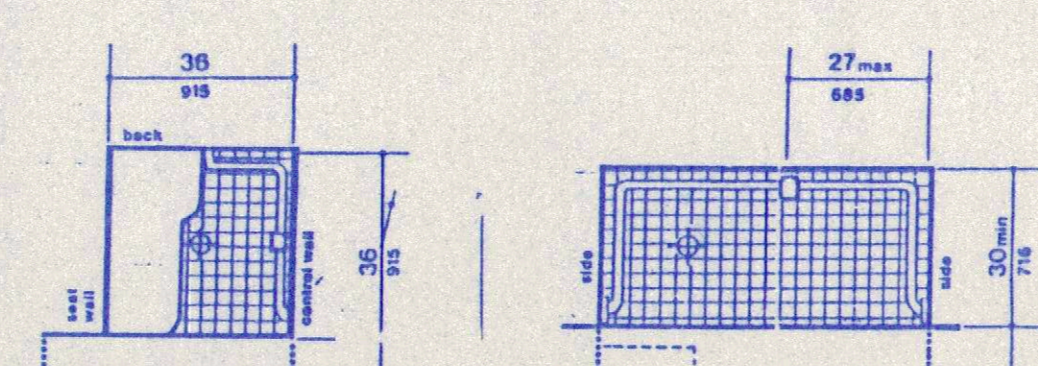


Fig. 36 Shower Seat Design

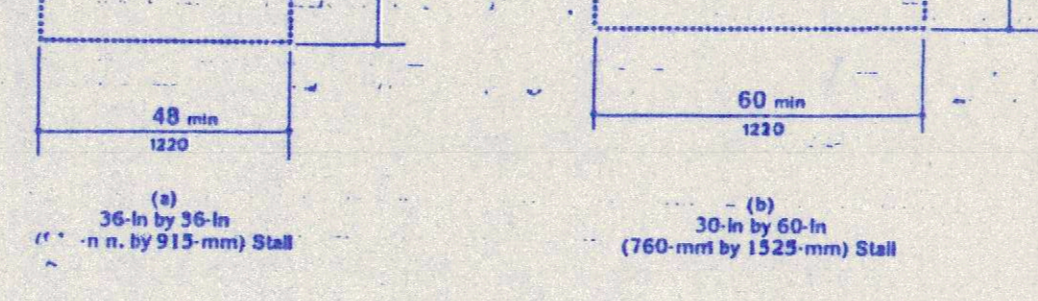


Fig. 37 Grab Bars at Shower Stalls

SHOWER STALLS

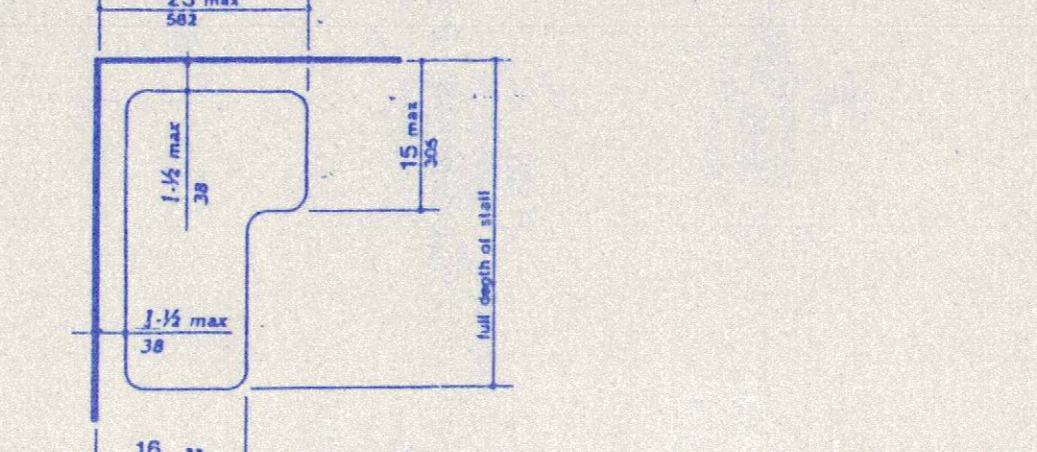


Fig. 36 Shower Seat Design

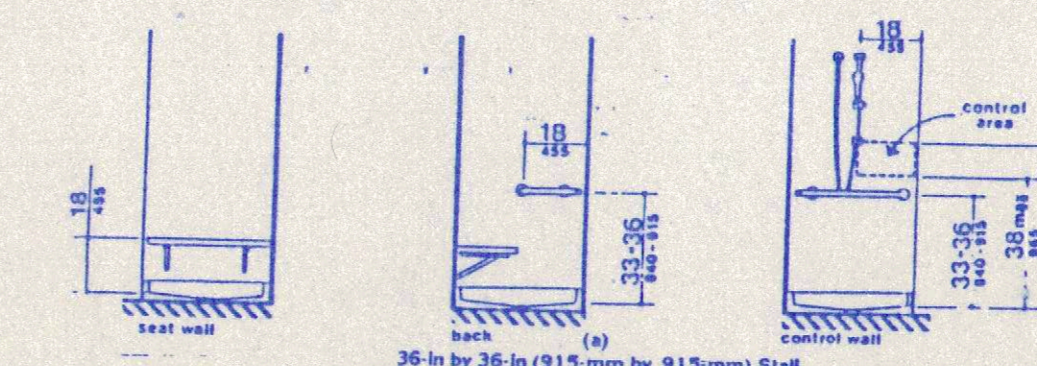


Fig. 37 Grab Bars at Shower Stalls

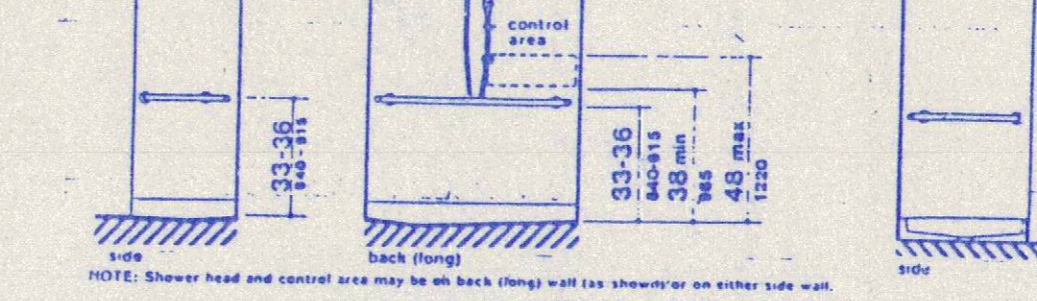


Fig. 37 Grab Bars at Shower Stalls

LAVATORIES & MIRRORS

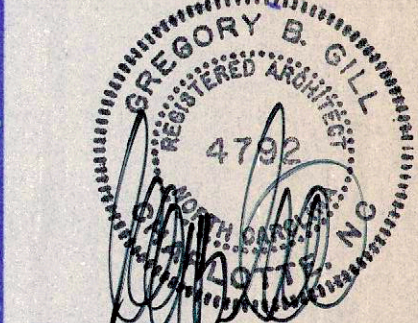
WATER FOUNTAINS / COOLERS

HABITAT ARCHITECTURAL GROUP, PA
Architecture
Planning
Interiors

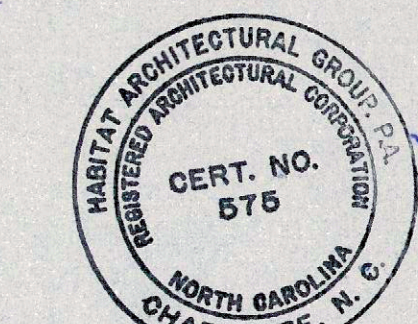
705 Royal Court
Suite 101
Charlotte, NC 28202
Phone (704) 338-9948
Fax (704) 338-9949

CONCORD HOLIDAY INN EXPRESS INN & SUITES
Concord, NC
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ADA ACCESSIBILITY GUIDELINES

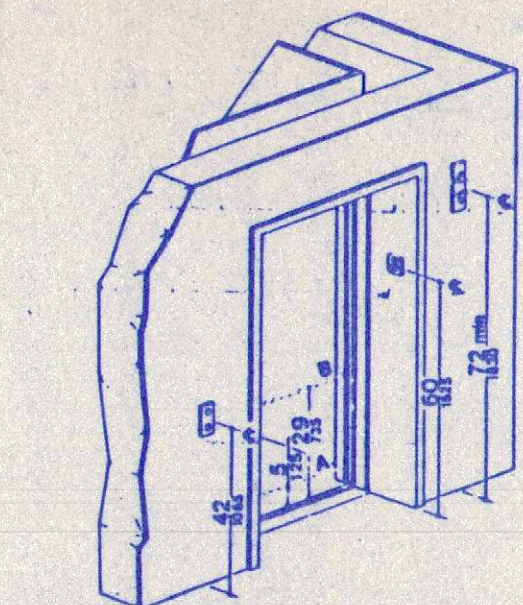


4.10 Elevators.

4.10.1 General. Accessible elevators shall be on an accessible route and shall comply with 4.10 and with the ASME A17.1-1990, Safety Code for Elevators and Escalators. Freight elevators shall not be considered as meeting the requirements of this section unless the only elevators provided are used for accessible routes for the public and employees.

4.10.2 Automatic Operation. Elevator operation shall be automatic. Each car shall be equipped with a self-leveling feature that will automatically bring the car to floor landings within a tolerance of 1/2 in (13 mm) under rated loading to zero loading conditions. This self-leveling feature shall be automatic and independent of the operating device and shall correct the overtravel or undertavel.

4.10.3 Hall Call Buttons. Call buttons in elevator lobbies and halls shall be centered at 42 in (1065 mm) above the floor. Such call buttons shall have visual signals to indicate when each call is registered and when each call is answered. Call buttons shall be a minimum of 3/4 in (19 mm) in the smallest dimension. The button designating the up direction shall be on top. (See 11.20.1) Buttons shall be raised or flush. Object mounted beneath hall call buttons shall not project into the elevator lobby more than 4 in (100 mm).



NOTE: The automatic door reopening device is activated if an object passes through line A or line B. Line A and line B represent the vertical locations of the door reopening device not requiring contact.

Fig. 20
Hoistway and Elevator Entrances

4.10.4 Hall Lanterns. A visible and audible signal shall be provided at each hoistway entrance to indicate which car is answering a call. Audible signals shall sound once for the up direction and twice for the down direction or shall have verbal announcements that say "up" or "down." Visible signals shall have the following features:

- (1) Hall lantern fixtures shall be mounted so that their centerline is at least 72 in (1830 mm) above the lobby floor. (See Fig. 20.)
- (2) Visual elements shall be at least 2-1/2 in (64 mm) in the smallest dimension.
- (3) Signals shall be visible from the vicinity of the hall call button (see Fig. 20). In-car lanterns located in cars, visible from the vicinity of hall call buttons, and conforming to the above requirements, shall be acceptable.

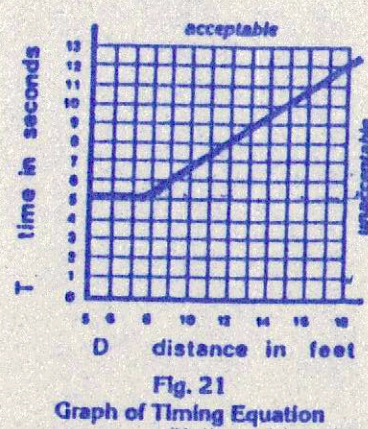


Fig. 21
Graph of Timing Equation

4.10.5 Raised and Braille Characters on Hoistway Entrances. All elevator hoistway entrances shall have raised and Braille floor designations provided on both jambs. The centerline of the characters shall be 60 in (1525 mm) above finish floor. Such characters shall be 2 in (50 mm) high and shall comply with 4.30.4. Permanently applied plates are acceptable if they are permanently fixed to the jambs. (See Fig. 20.)

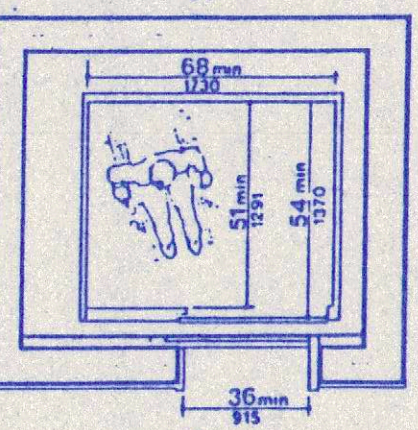
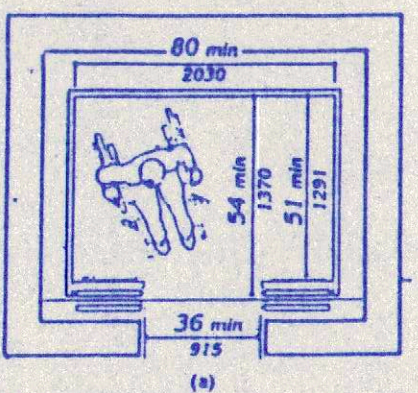


Fig. 22
Minimum Dimensions of Elevator Cars

4.10.6 Door Protective and Reopening Device. Elevator doors shall open and close automatically. They shall be provided with a reopening device that will stop and reopen a car door and hoistway door automatically if the door becomes obstructed by an object or person. The device shall be capable of completing these operations without requiring contact for an obstruction passing through the opening at heights of 6 in and 29 in (152 mm and 735 mm) above finish floor (see Fig. 20). Door reopening devices shall remain effective for at least 20 seconds. After such an interval, doors may close in accordance with the requirements of ASME A17.1-1990.

4.10.7 Door and Signal Timing for Hall Calls. The minimum acceptable time from notification that a car is answering a call until the doors of that car start to close shall be calculated from the following equation:

$$T = D(1.5 ft/s) + T + D(445 mm/s)$$

where T total time in seconds and D distance (in feet or millimeters) from a point in the lobby or corridor 60 in (1525 mm) directly in front of the farthest hall call button controlling that car to the centerline of its hoistway door (see Fig. 21). For cars with in-car lanterns, T begins when the lantern is visible from the vicinity of hall call buttons and an audible signal is sounded. The minimum acceptable notification time shall be 5 seconds.

4.10.8 Door Delay for Car Calls. The minimum time for elevator doors to remain fully open in response to a car call shall be 3 seconds.

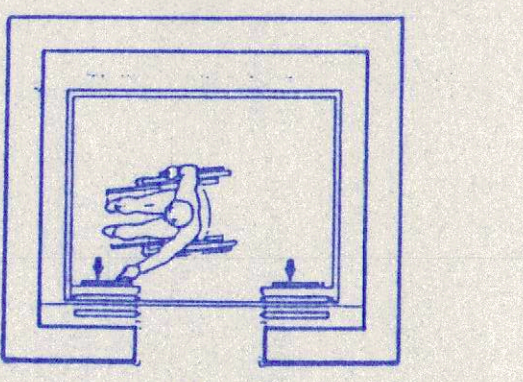
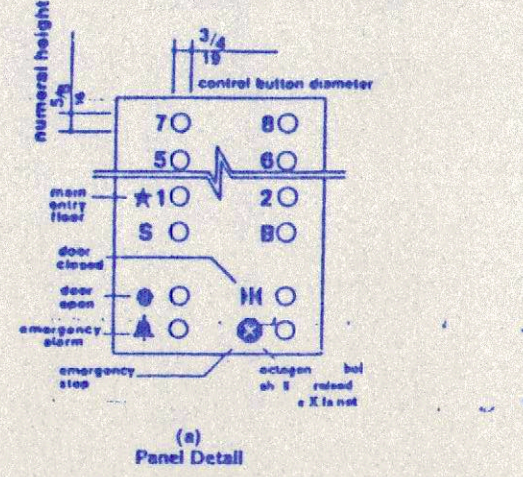


Fig. 23
Car Controls

4.10.9 Floor Plan of Elevator Cars. Floor area of elevator cars shall provide space for wheelchair users to enter the car, maneuver within reach of controls, and exit from the car. Acceptable door opening and inside dimensions shall be as shown in Fig. 22. The clearance between the car platform sill and the edge of any hoistway landing shall be no greater than 1-1/4 in (32 mm).

4.10.10 Floor Surfaces. Floor surfaces shall comply with 4.5.

4.10.11 Illumination Levels. The level of illumination at the car controls, platform, and car threshold and landing sill shall be at least 5 footcandles (53.8 lux).

4.10.12 Car Controls. Elevator control panels shall have the following features:

- (1) Buttons. All control buttons shall be at least 3/4 in (19 mm) in their smallest dimension. They shall be raised or flush.
- (2) Tactile, Braille, and Visual Control Indicators. All control buttons shall be designated by Braille and by raised standard alphabet characters for letters, arabic numerals, or standard symbols as shown in Fig. 23(a), and as required in ASME A17.1-1990. Raised and Braille characters and symbols shall comply with 4.30. The call button for the main entry floor shall be designated by a raised star at the left of the floor designation (see Fig. 23(a)). All raised designations for control buttons shall be placed immediately to the left of the button to which they apply. Applied plates, permanently attached, are an acceptable means to provide raised control designations. Floor buttons shall be provided with visual indicators to show when each call is registered. The visual indicators shall be extinguished when each call is answered.
- (3) Height. All floor buttons shall be no higher than 54 in (1370 mm) above the finish floor for side approach and 48 in (1220 mm) for front approach. Emergency controls, including the emergency alarm and emergency stop, shall be grouped at the bottom of the panel and shall have their centerlines no less than 35 in (890 mm) above the finish floor (see Fig. 23(a) and (b)).
- (4) Location. Controls shall be located on a front wall if cars have center opening doors, and at the side wall or at the front wall next to the door if cars have side opening doors (see Fig. 23(a) and (d)).

4.10.13 Car Position Indicators. In elevator cars, a visual car position indicator shall be provided above the car control panel or over the door to show the position of the elevator in the hoistway. As the car passes or stops at a floor served by the elevators, the corresponding numerals shall illuminate, and an audible signal shall sound. Numerals shall be a minimum of 1/2 in (13 mm) high. The audible signal shall be no less than 20 decibels with a frequency no higher than 1500 Hz. An automatic verbal announcement of the floor number at which a car stops or which a car passes may be substituted for the audible signal.

4.10.14 Emergency Communication. If provided, emergency two-way communication systems between the elevator and a point outside the hoistway shall comply with ASME

4.2 Space Allowance and Reach Ranges.

4.2.1 Wheelchair Passage Width. The minimum clear width for single wheelchair passage shall be 32 in (815 mm) at a point and 36 in (915 mm) continuously (see Fig. 1 and 2(a)).

4.2.2 Width for Wheelchair Passing. The minimum width for two wheelchairs to pass is 60 in (1525 mm) (see Fig. 2).

4.2.3 Wheelchair Turning Space. The space required for a wheelchair to make a 180-degree turn is a clear space of 60 in (1525 mm) diameter (see Fig. 3(a)) or a T-shaped space (see Fig. 3(b)).

4.2.4 Clear Floor or Ground Space for Wheelchairs.

4.2.4.1 Size and Approach. The minimum clear floor or ground space required to accommodate a single, stationary wheelchair and occupant is 30 in by 48 in (760 mm by 1220 mm) (see Fig. 4(a)). The minimum clear floor or ground space for wheelchairs may be positioned for forward or parallel approach to an object (see Fig. 4(b) and (c)). Clear floor or ground space for wheelchairs may be part of the knee space required under some objects.

4.2.4.2 Relationship of Maneuvering Clearance to Wheelchair Spaces. One full unobstructed side of the clear floor or ground space for a wheelchair shall adjoin or overlap an accessible route or adjoin another wheelchair clear floor space. If a clear floor space is located in an alcove or otherwise confined on all or part of three sides, additional maneuvering clearances shall be provided as shown in Fig. 4(d) and (e).

4.2.4.3 Surfaces for Wheelchair Spaces. Clear floor or ground spaces for wheelchairs shall comply with 4.5.

4.2.5 Forward Reach. If the clear floor space only allows forward approach to an object, the maximum high forward reach allowed shall be 48 in (1220 mm) (see Fig. 5(a)). The minimum low forward reach is 15 in (380 mm). If the high forward reach is over an obstruction, reach and clearances shall be as shown in Fig. 5(b).

4.2.6 Side Reach. If the clear floor space allows parallel approach by a person in a wheelchair, the maximum high side reach allowed shall be 54 in (1370 mm) and the low side reach shall be no less than 9 in (230 mm) above the floor (Fig. 6(a) and (b)). If the side reach is over an obstruction, reach and clearances shall be as shown in Fig. 6(c).

4.3 Accessible Route.

4.3.1 General. All walks, halls, corridors, stairs, skylights, tunnels, and other spaces that are part of an accessible route shall comply with 4.3.

4.3.2 Location.

(1) At least one accessible route within the boundary of the site shall be provided from public transportation stops, accessible parking, and accessible passenger loading zones to the building entrance they serve. The accessible route shall, to the maximum extent feasible, coincide with the route for the general public.

(2) At least one accessible route shall connect accessible buildings, facilities, elements, and spaces that are on the same site.

(3) At least one accessible route shall connect all accessible building or facility entrances with all accessible spaces and elements and with all accessible dwelling units within the building or facility.

(4) An accessible route shall connect at least one accessible entrance of each accessible dwelling unit with those exterior and interior spaces and facilities that serve the accessible dwelling unit.

4.3.3 Widths. The minimum clear width of an accessible route shall be 36 in (915 mm) except at doors (see 4.13.5 and 4.13.6). If a person in a wheelchair must make a turn around an obstruction, the minimum clear width of the accessible route shall be as shown in Fig. 7(a) and (b).

4.3.4 Passing Space. If an accessible route has less than 60 in (1525 mm) clear width, then passing spaces at least 60 in by 60 in (1525 mm by 1525 mm) shall be located at reasonable intervals not to exceed 200 ft (61 m). A T-intersection of two corridors or walks is an acceptable passing space.

4.3.5 Head Room. Accessible routes shall comply with 4.4.2.

4.3.6 Surface Textures. The surface of an accessible route shall comply with 4.5.

4.3.7 Slope. An accessible route with a running slope greater than 1:20 is a ramp and shall comply with 4.8. Nowhere shall the cross slope of an accessible route exceed 1:50.

4.3.8 Changes in Levels. Changes in levels along an accessible route shall comply with 4.5.2. If an accessible route has changes in level greater than 1/2 in (13 mm), then a curb ramp, ramp, elevator, or platform lift (as permitted in 4.1.3 and 4.1.4) shall be provided that complies with 4.7, 4.1, 4.10, or 4.11, respectively. An accessible route does not include stairs, steps, or escalators. See definition of "gress, means of" in 3.5.

4.3.9 Doors. Doors along an accessible route shall comply with 4.13.

4.3.10 Egress. Accessible routes serve any accessible space or element shall also serve as a means of egress for emergencies or connect to an accessible area of rescue assistance.

4.3.11 Areas of Rescue Assistance.

- (1) A portion of a stairway landing within a smokeproof enclosure complying with local requirements.
- (2) A portion of an exterior exit balcony located immediately adjacent to an exit stairway when the balcony complies with local requirements for exterior exit balconies. Openings to the interior of the building located within 20 feet (6 m) of the

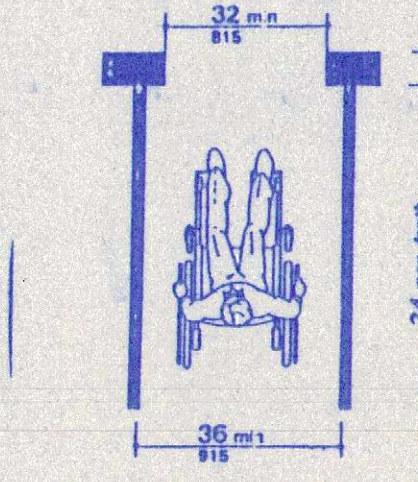


Fig. 1
Minimum Clear Width for Single Wheelchair

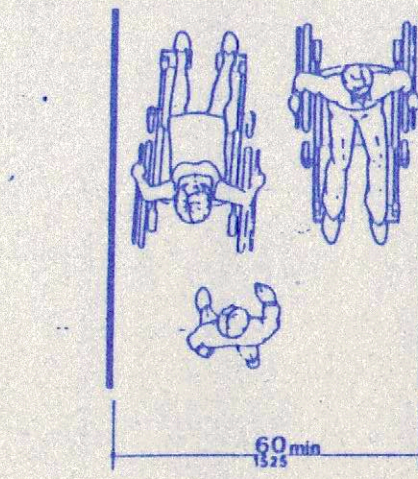


Fig. 2
Minimum Clear Width for Two Wheelchairs

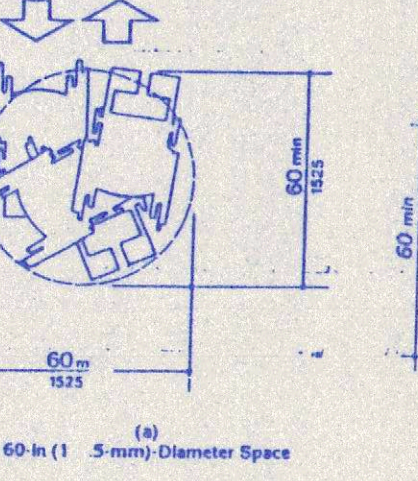


Fig. 3
Wheelchair Turning Space

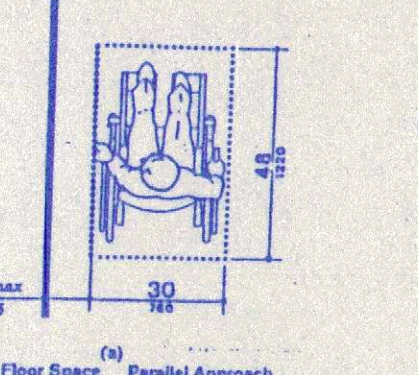


Fig. 4
Clear Floor Space (Parallel Approach)

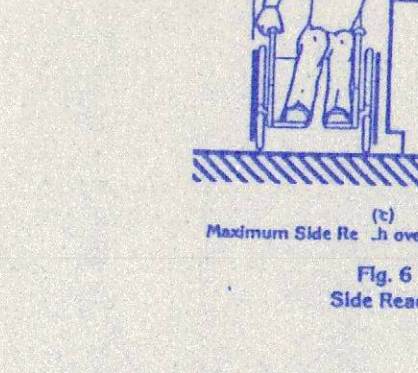


Fig. 6
Side Reach

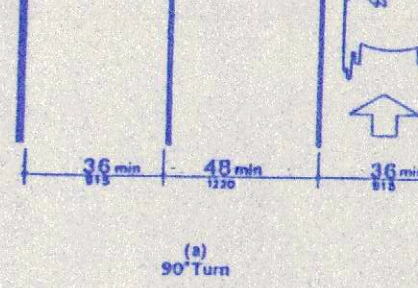


Fig. 7
Accessible Route

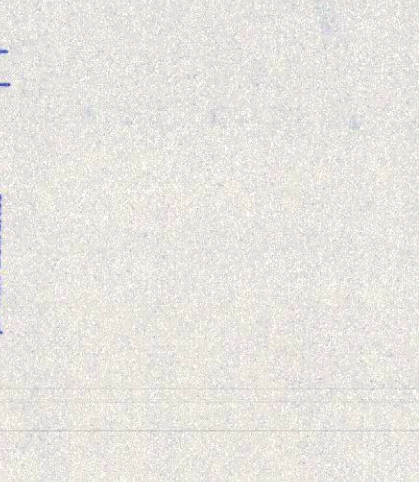


Fig. 3
T Shaped Space for 180° Turn

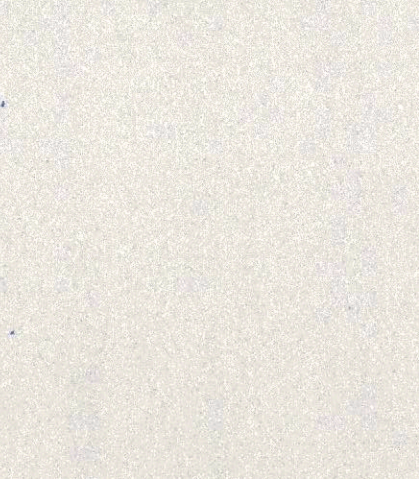


Fig. 6
High and Low Side Reach Limits

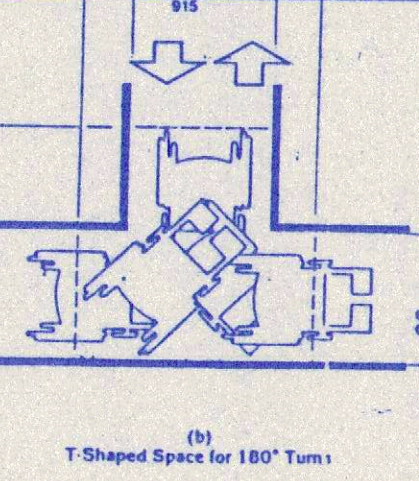


Fig. 4
Clear Floor Space (Parallel Approach)

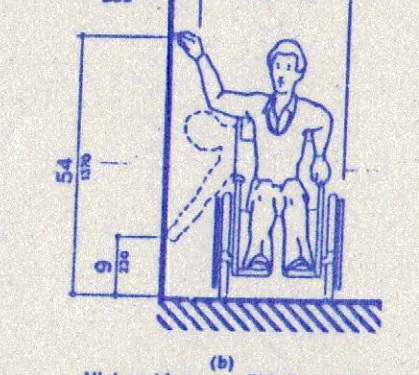


Fig. 5
Forward Reach

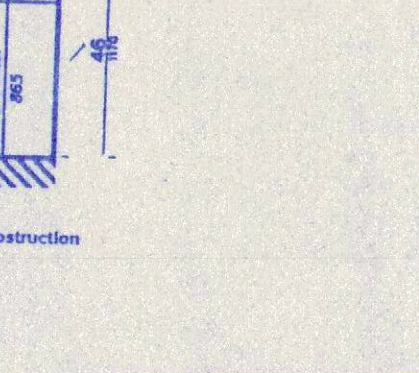


Fig. 6
Maximum Side Reach over Obstruction

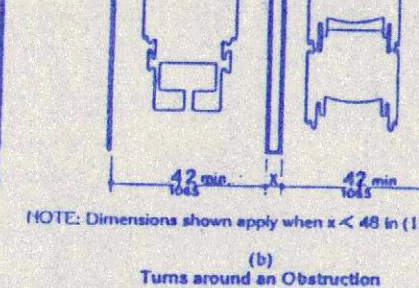


Fig. 7
Turns around an Obstruction

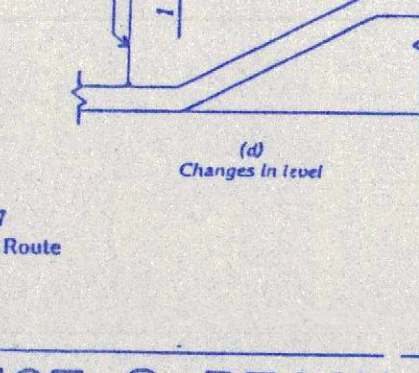


Fig. 7
Changes in Level

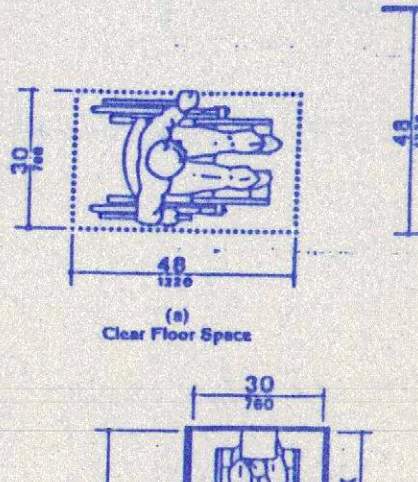


Fig. 4
Clear Floor Space in Alcove

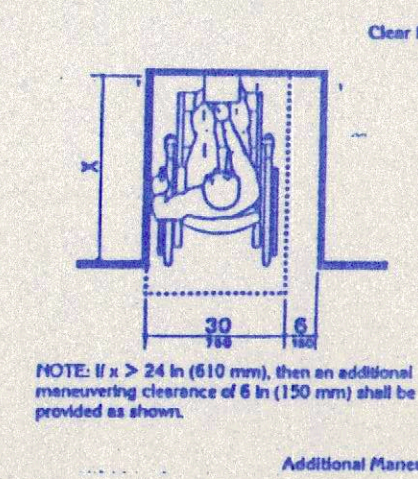


Fig. 4
Additional Maneuvering Clearances for Alcoves

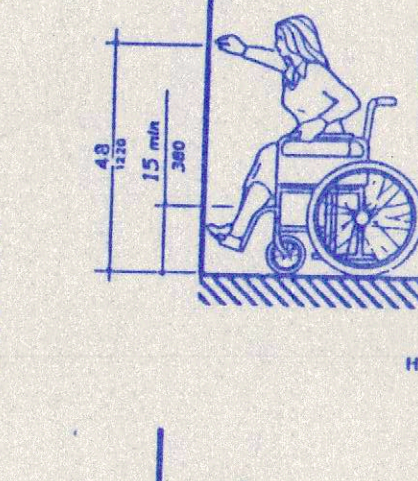


Fig. 4
Minimum Clear Floor Space for Wheelchairs

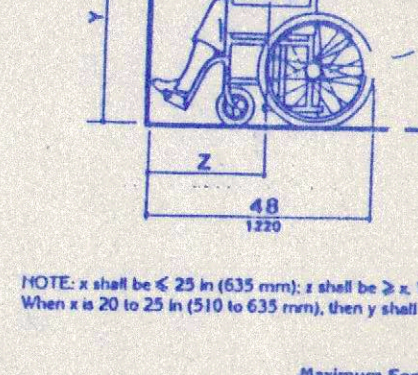


Fig. 5
Forward Reach



Fig. 5
Maximum Forward Reach over an Obstruction



Fig. 8
Free-Standing Overhanging Objects

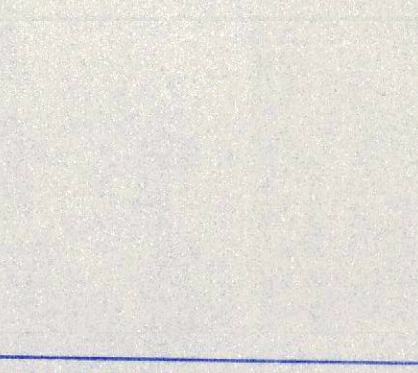


Fig. 8
Objects Mounted on Faces or Planes

Fig. 8
Protruding Objects (Continued)

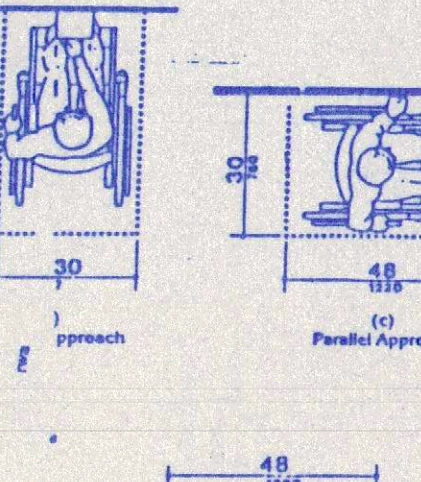


Fig. 1
48 inch wide wheelchair passage

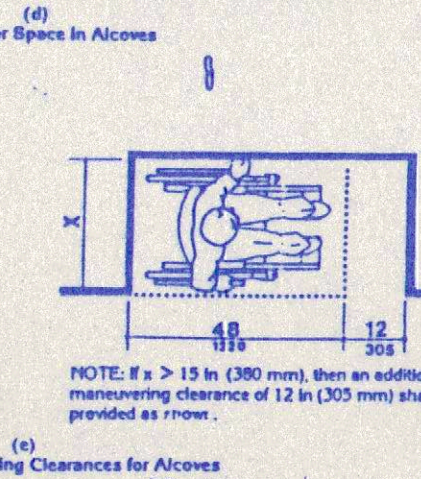


Fig. 4
Clear Floor Space in Alcove

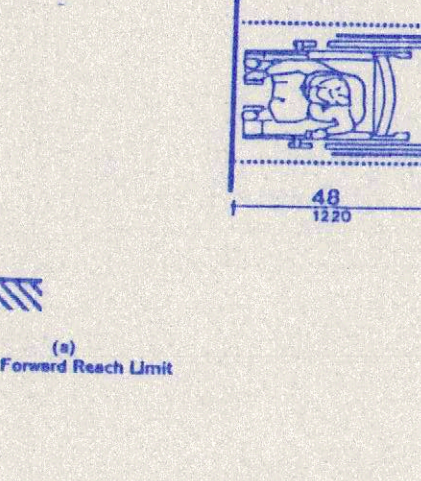


Fig. 3
Wheelchair Turning Space

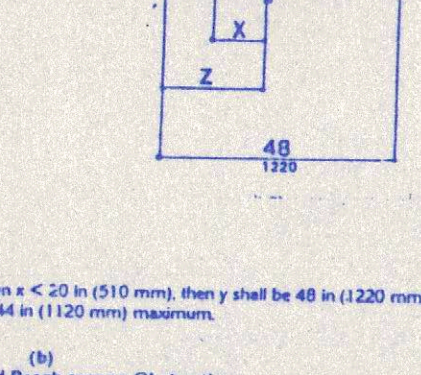


Fig. 4
Clear Floor Space (Parallel Approach)



Fig. 6
Side Reach



Fig. 7
Accessible Route

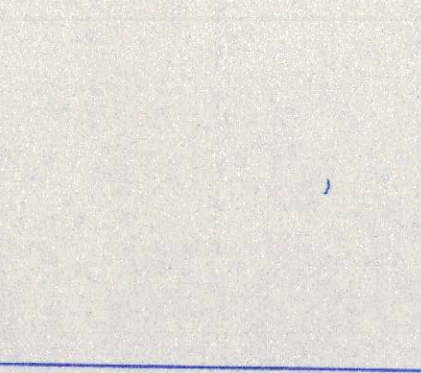


Fig. 5
Forward Reach

Fig. 5
Maximum Forward Reach over an Obstruction

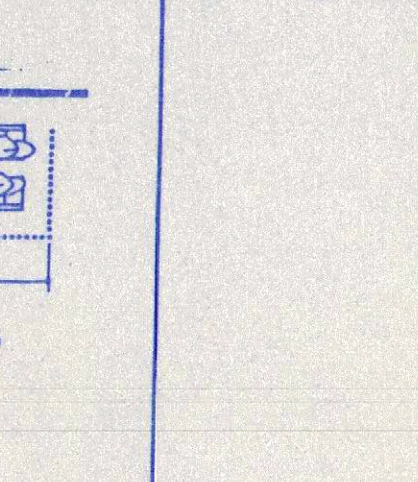


Fig. 4
Clear Floor Space in Alcove

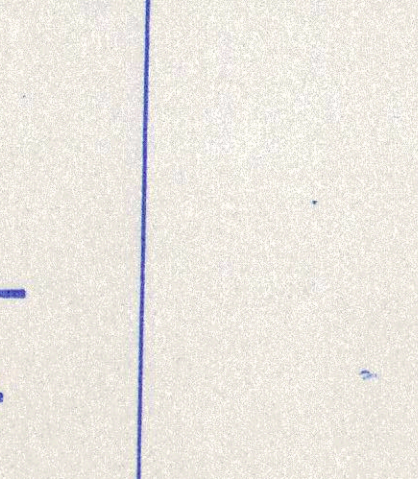


Fig. 4
Additional Maneuvering Clearances for Alcoves

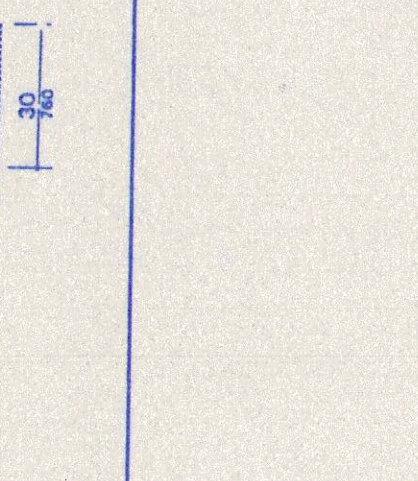


Fig. 4
Minimum Clear Floor Space for Wheelchairs

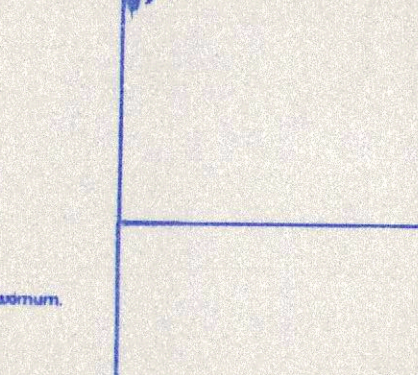


Fig. 5
Forward Reach

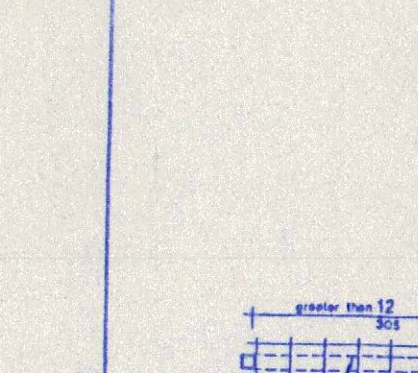


Fig. 6
Maximum Side Reach over an Obstruction

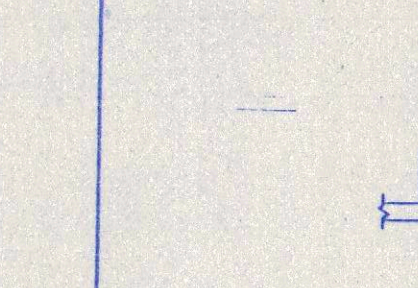


Fig. 8
Free-Standing Overhanging Objects

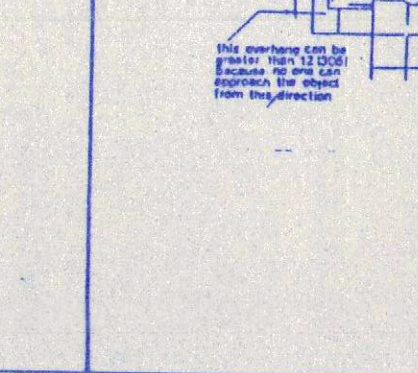


Fig. 8
Objects Mounted on Faces or Planes

Fig. 8
Protruding Objects (Continued)

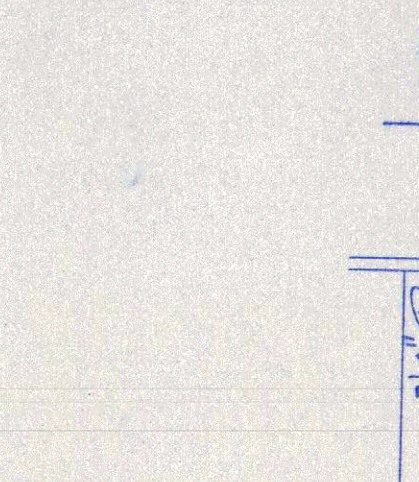


Fig. 1
48 inch wide wheelchair passage

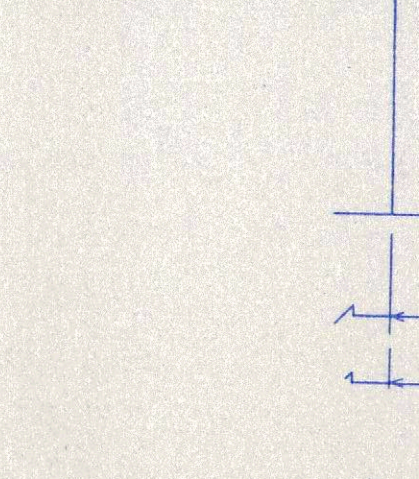


Fig. 4
Clear Floor Space in Alcove



Fig. 3
Wheelchair Turning Space

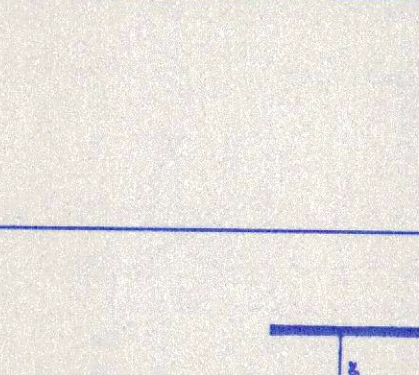


Fig. 4
Clear Floor Space (Parallel Approach)

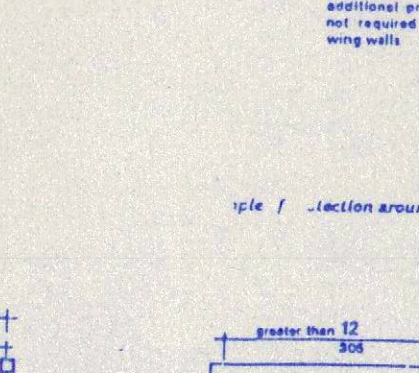


Fig. 6
Side Reach

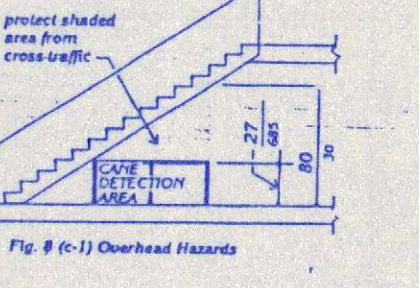


Fig. 7
Accessible Route

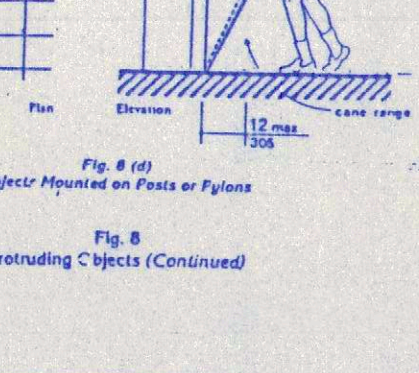


Fig. 5
Forward Reach

Fig. 5
Maximum Forward Reach over an Obstruction

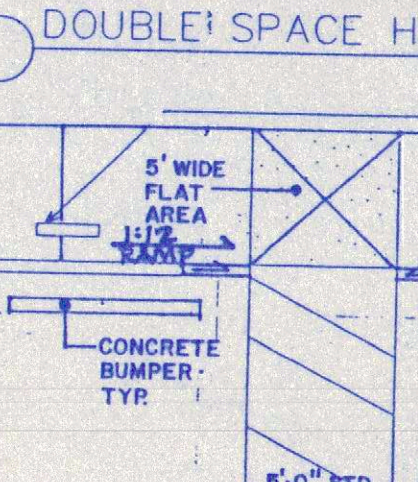


Fig. 9
Double Space Handicap Parking

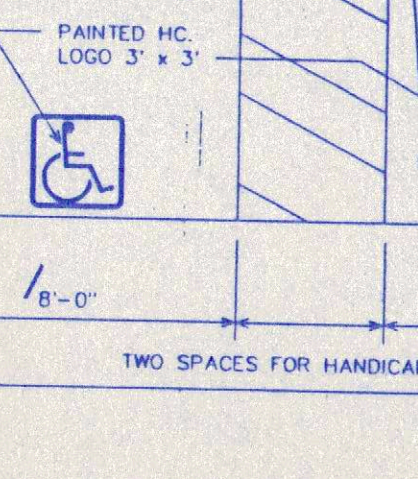


Fig. 11
Measurement of Curb Ramp Slopes

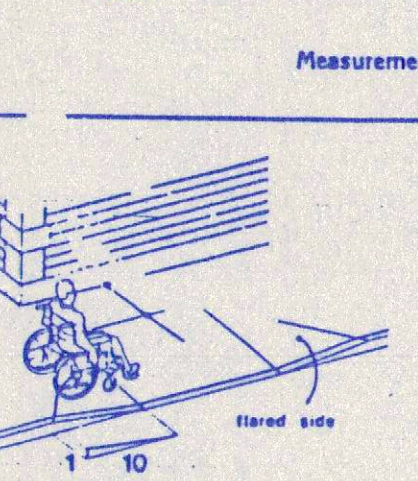


Fig. 12
Sides of Curb Ramps

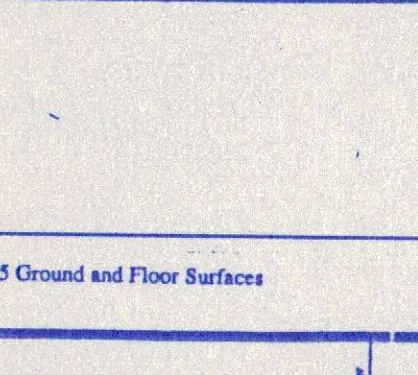


Fig. 10
Ground and Floor Surfaces

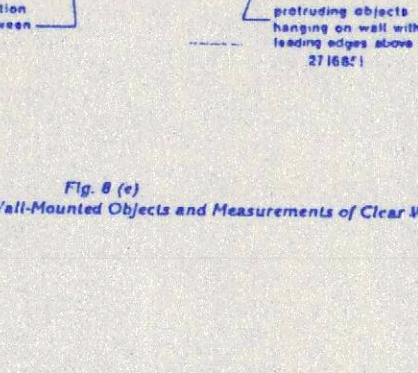


Fig. 8
Section around Wall-Mounted Objects and Measurement of Clear Width

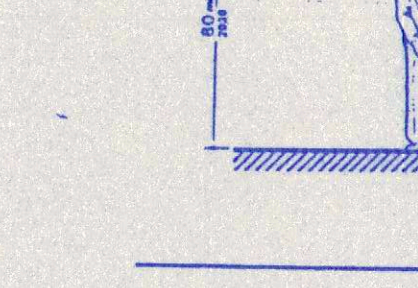


Fig. 8
Protruding Objects

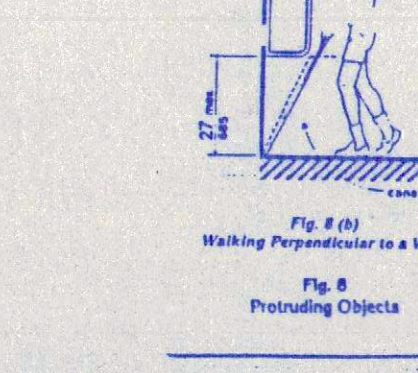


Fig. 8
Walking Perpendicular to a Wall

Fig. 8
Protruding Objects (Continued)

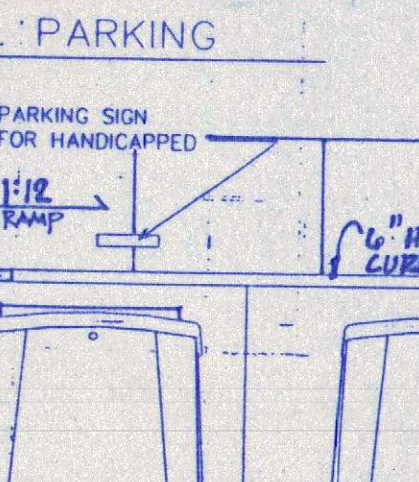


Fig. 1
48 inch wide wheelchair passage

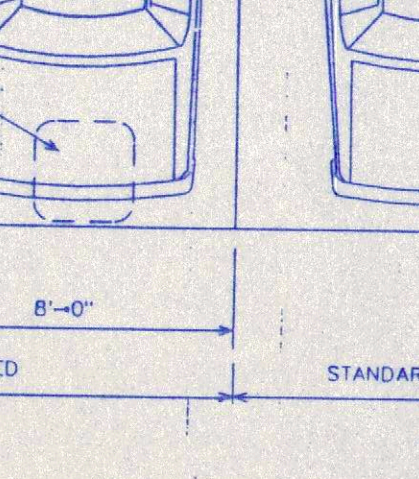


Fig. 4
Clear Floor Space in Alcove

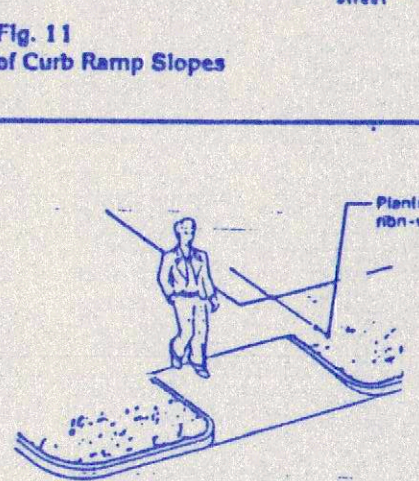


Fig. 3
Wheelchair Turning Space

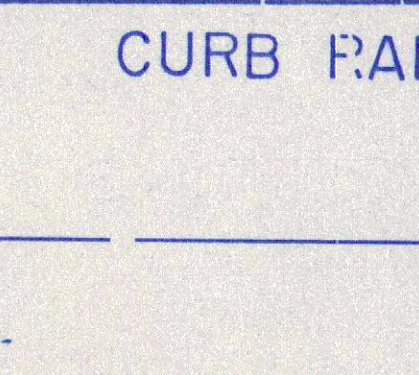


Fig. 4
Clear Floor Space (Parallel Approach)

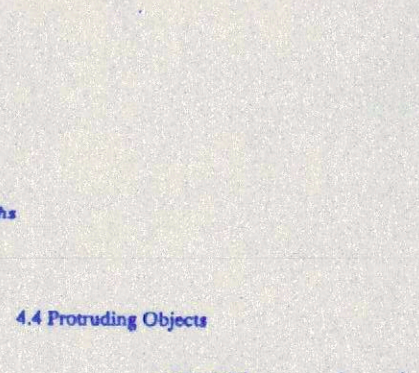


Fig. 6
Side Reach

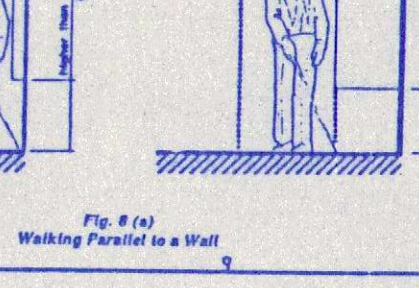


Fig. 7
Accessible Route

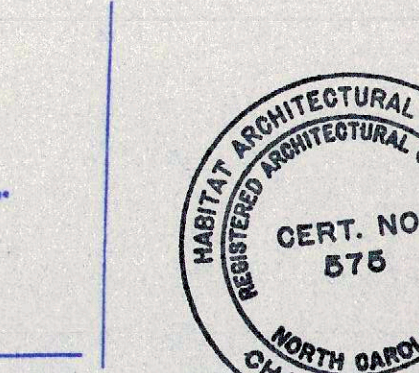


Fig. 5
Forward Reach

Fig. 5
Maximum Forward Reach over an Obstruction

CURB RAMP

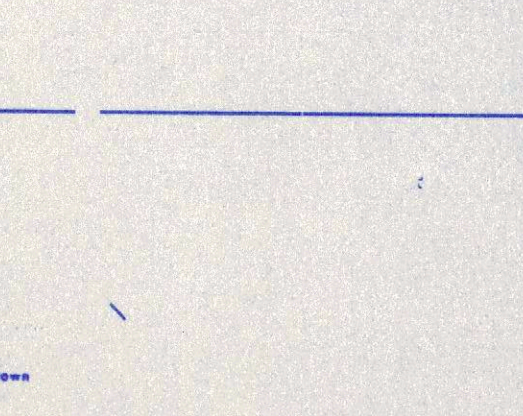


Fig. 10
Ground and Floor Surfaces

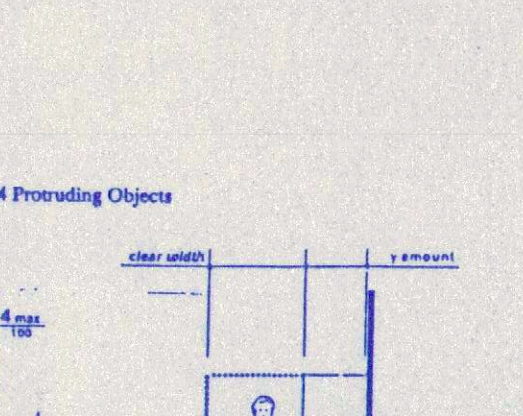


Fig. 8
Section around Wall-Mounted Objects and Measurement of Clear Width

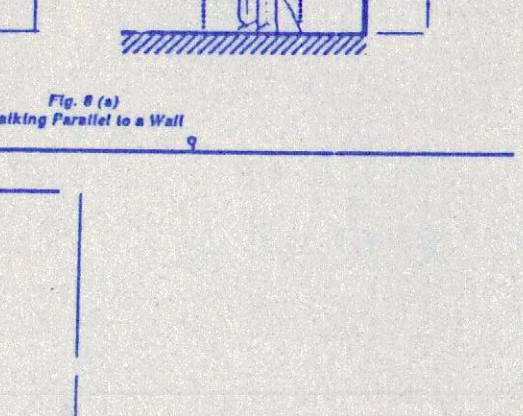


Fig. 8
Protruding Objects

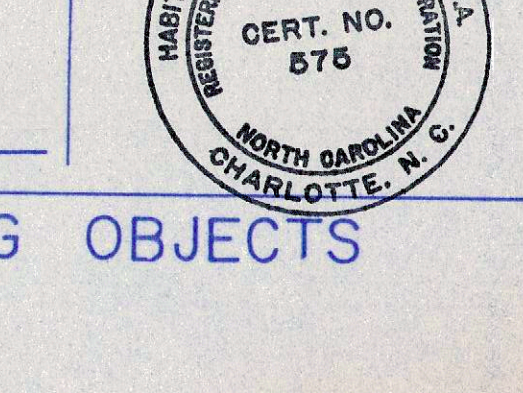


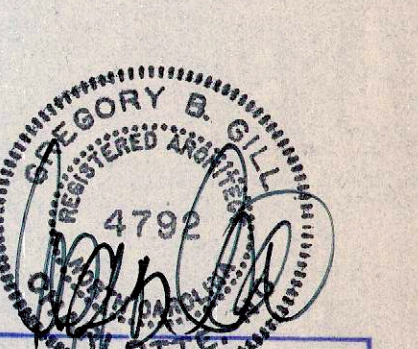
Fig. 8
Walking Perpendicular to a Wall

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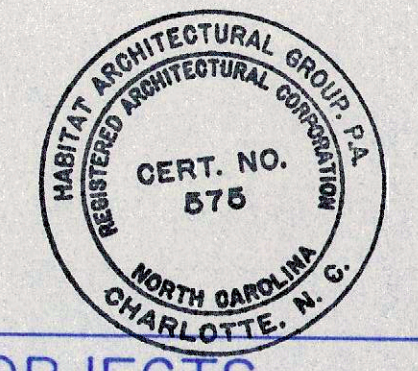
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Concord, NC

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ADA ACCESSIBILITY GUIDELINES



ADA-3 OF

SPACE ALLOWANCE & REACH RANGES/ACCESSIBLE ROUTE

PROTRUDING OBJECTS

ADA Accessibility Guidelines

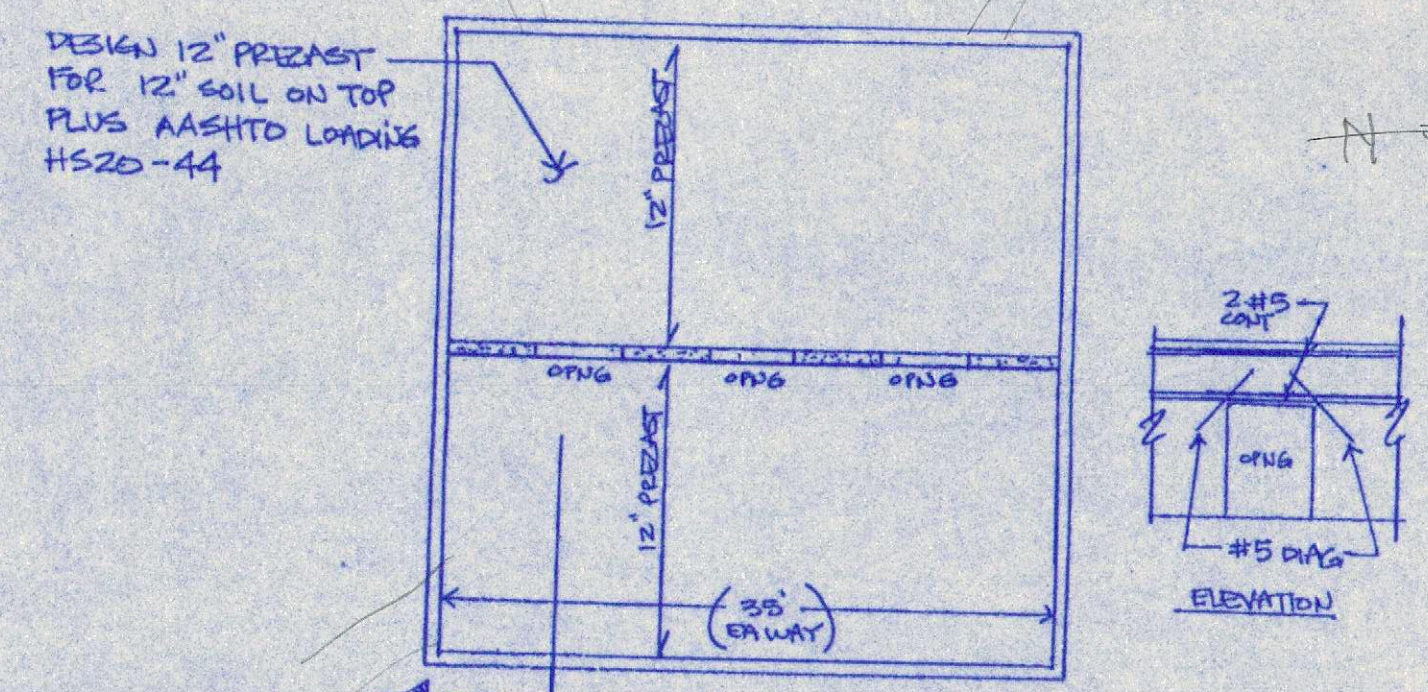
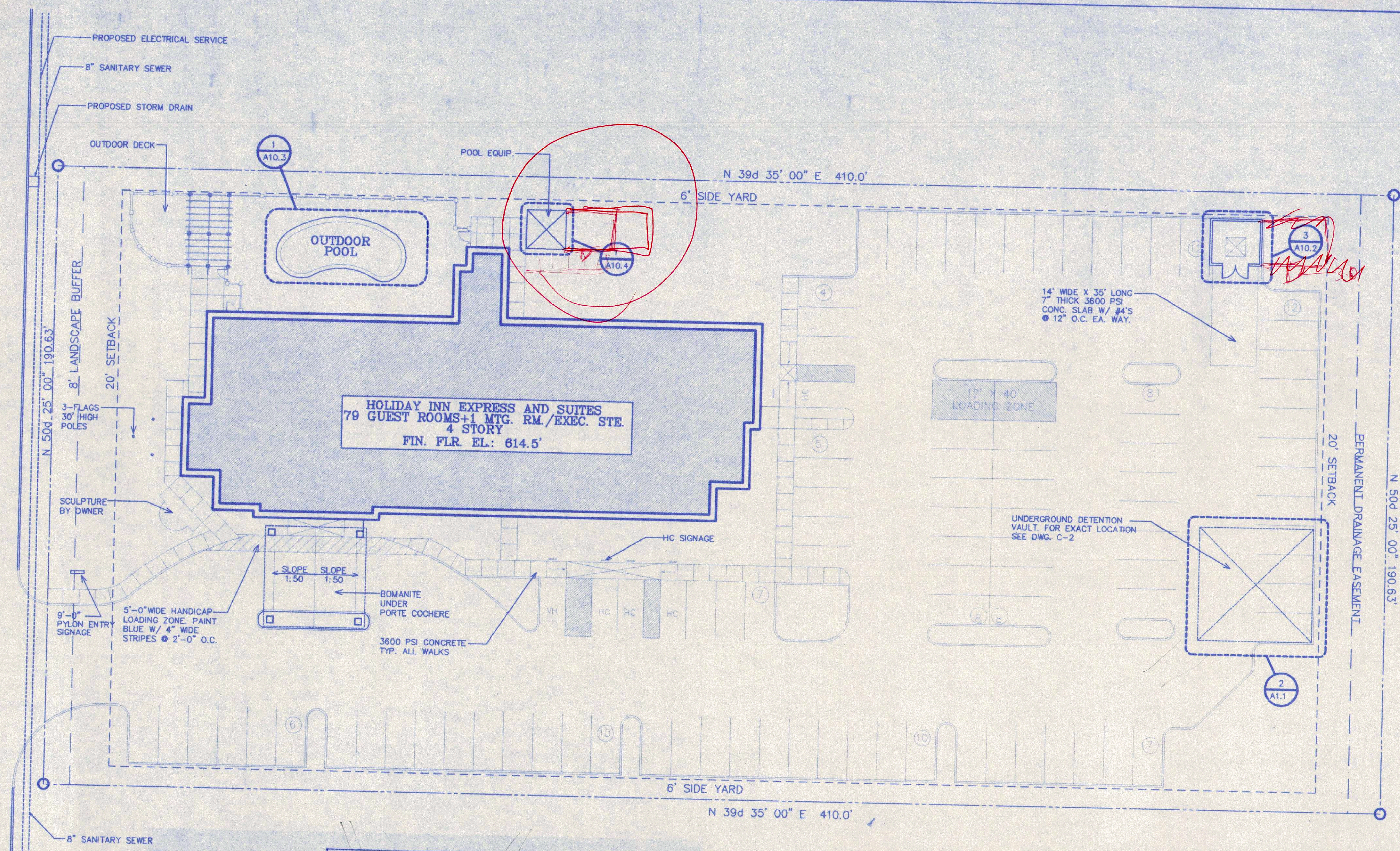
ELEVATORS

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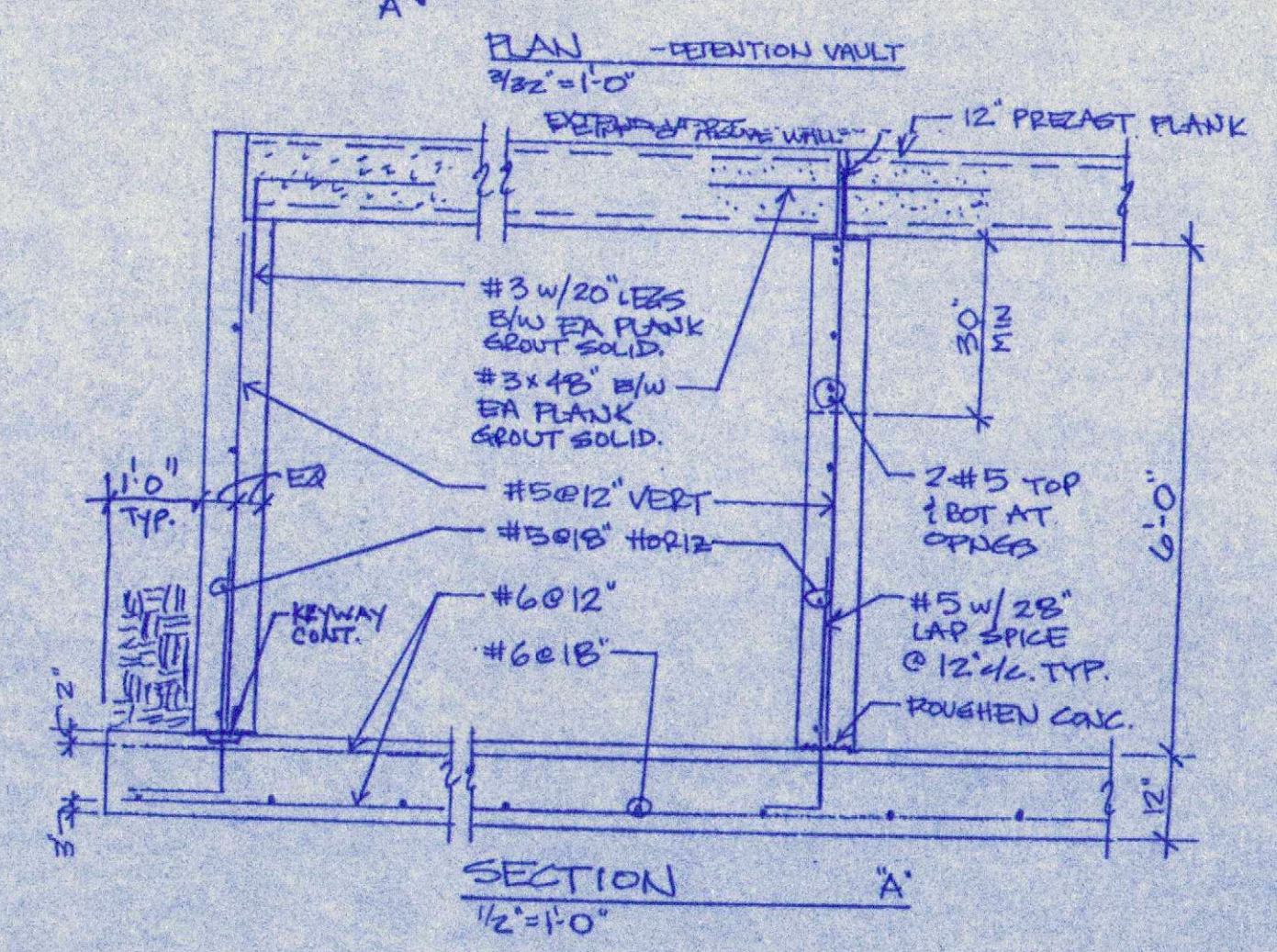
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 REVISIONS:

12" WATER

GATEWAY WEST DRIVE SW

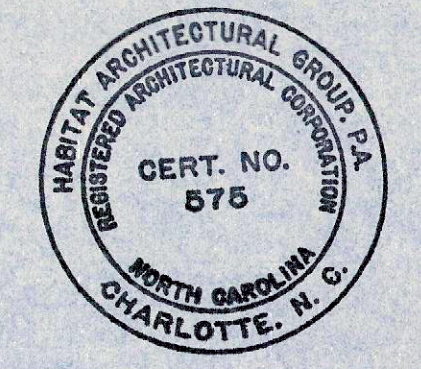
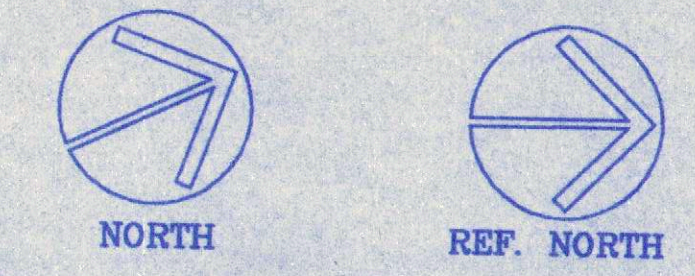


*Water out let
 & inlet*



2 DETENTION VAULT
 SCALE 3/32" = 1'-0"

1 HOLIDAY INN EXPRESS INN AND SUITES
 SITE PLAN
 SCALE 1" = 20'-0"
 79 GUEST ROOMS+1 MTG. RM./EXECUTIVE STE
 97 PARKING SPACES
 190'-7 1/2" X 410'-0" = 1.79 ACRES

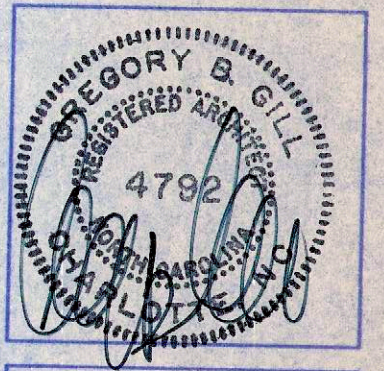


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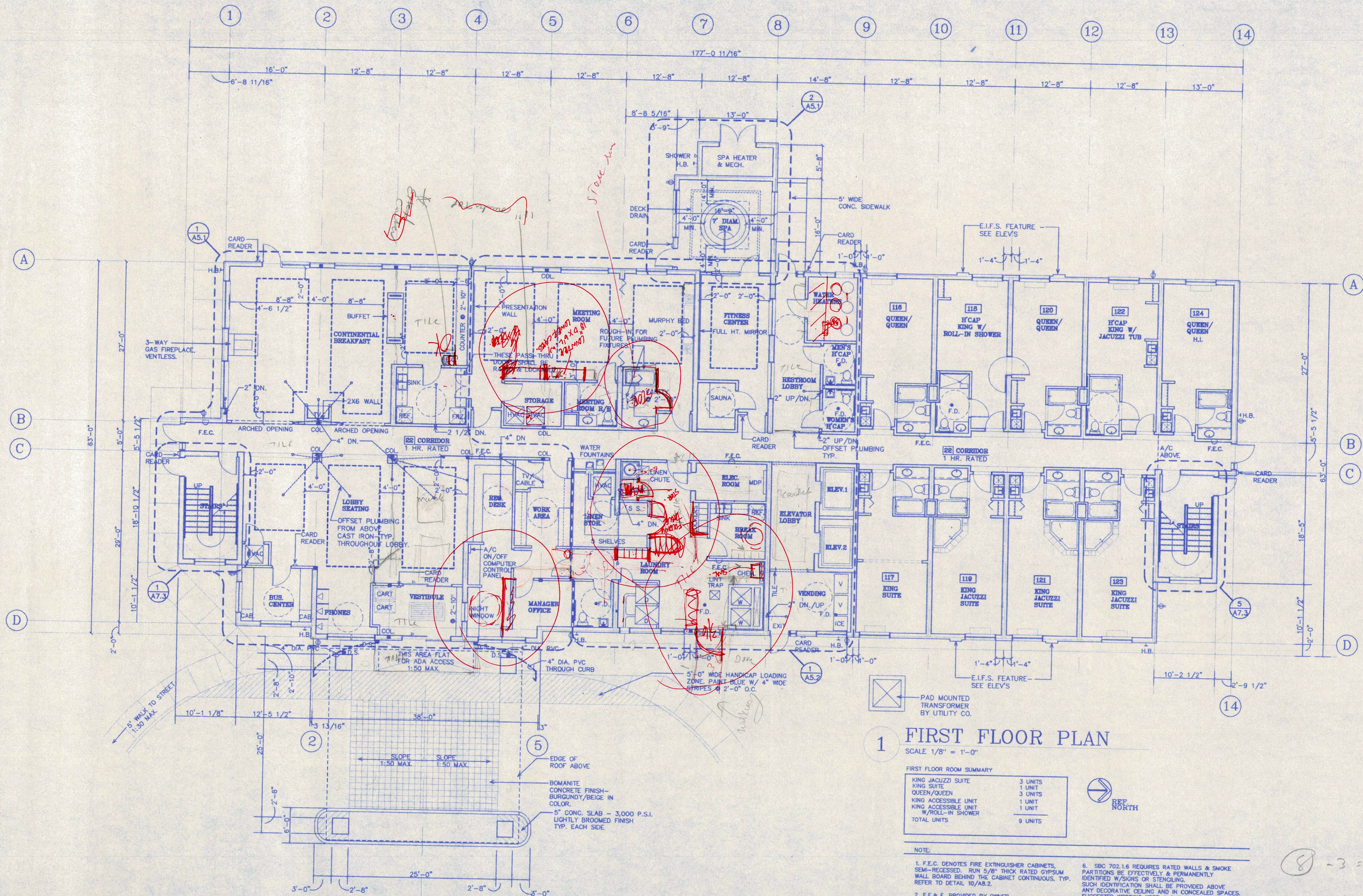


SITE PLAN

A1.1

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DATE: 10/30/98 10:30 AM



1 FIRST FLOOR PLAN

SCALE 1/8" = 1'-0"

FIRST FLOOR ROOM SUMMARY

KING JACUZZI SUITE	3 UNITS
KING SUITE	1 UNIT
QUEEN/QUEEN	3 UNITS
KING ACCESSIBLE UNIT	1 UNIT
KING ACCESSIBLE UNIT	1 UNIT
W/ROLL-IN SHOWER	
TOTAL UNITS	9 UNITS

- NOTE:
- F.E.C. DENOTES FIRE EXTINGUISHER CABINETS, SEMI-RECESSED, RUN 5/8" THICK RATED GYPSUM WALL BOARD BEHIND THE CABINET CONTINUOUS, TYP. REFER TO DETAIL 10/AB.2.
 - F.F. & E. PROVIDED BY OWNER. (RECEIVED, STORED, AND INSTALLED BY CONTRACTOR)
 - H.I. & GUESTROOMS EQUIPPED FOR THE HEARING IMPAIRED, (VISUAL, AUDIBLE, & TELECOMMUNICATORS)
 - REFER TO SHEET A9.1 FOR DOOR AND WINDOW
 - SBC 702.1.6 REQUIRES RATED WALLS & SMOKE PARTITIONS BE EFFECTIVELY & PERMANENTLY IDENTIFIED W/SIGNS OR STENCILING. SUCH IDENTIFICATION SHALL BE PROVIDED ABOVE ANY DECORATIVE CEILING AND IN CONCEALED SPACES. SUGGESTED WORDING "FIRE & SMOKE BARRIER-PROTECT ALL OPENINGS."

79
38
41

8 - 3 = 5

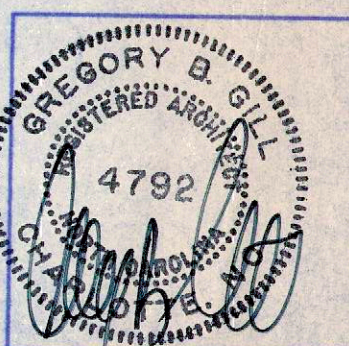
56
18
38

CONCORD EXPRESS INN & SUITES

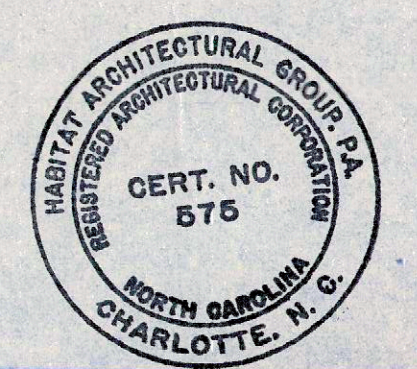
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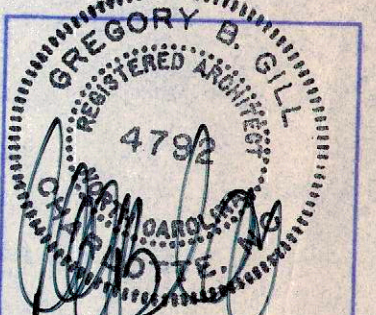
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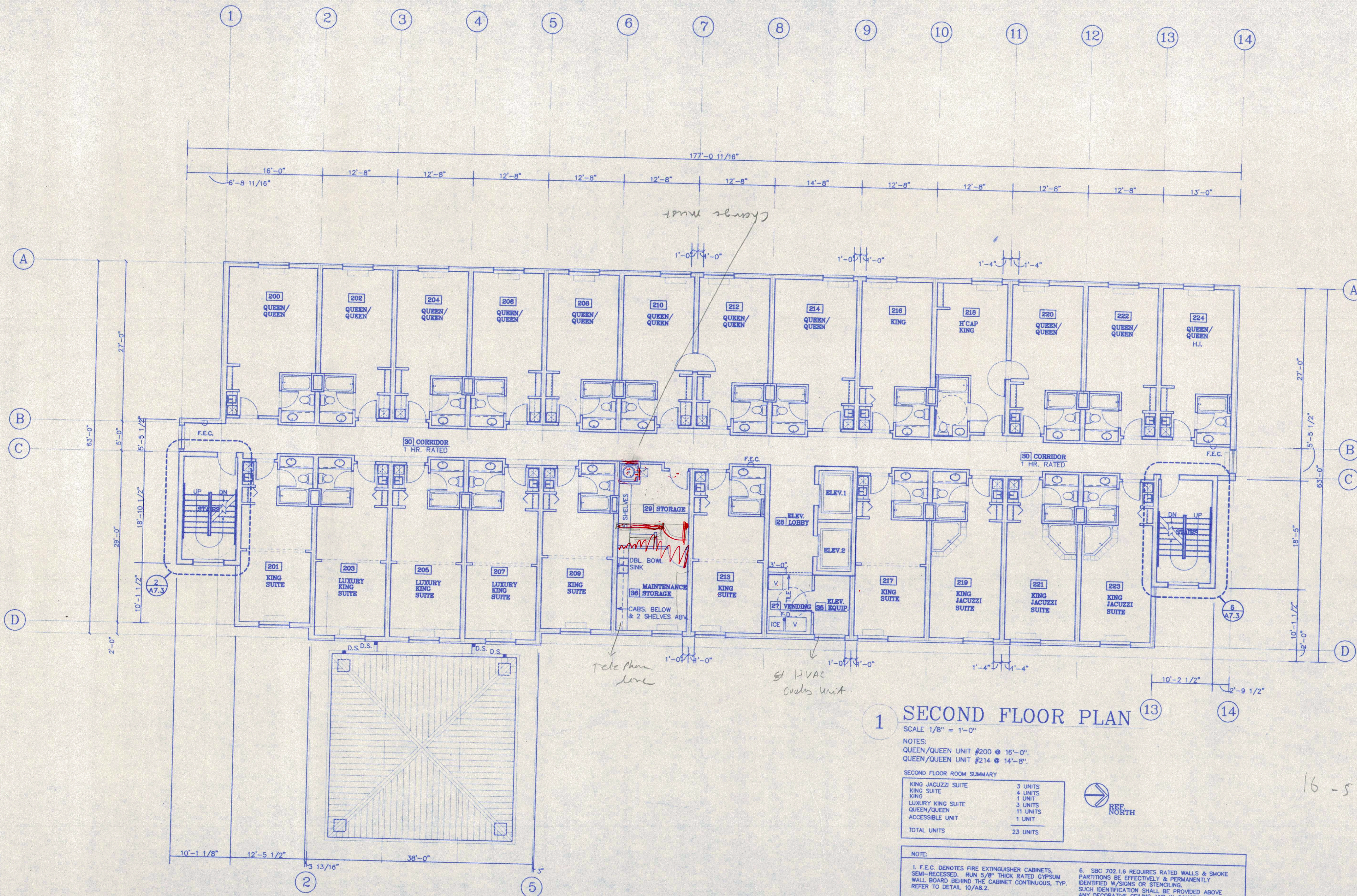
FIRST FLOOR PLANS



A2.1



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1 SECOND FLOOR PLAN

SCALE 1/8" = 1'-0"

NOTES:
QUEEN/QUEEN UNIT #200 @ 16'-0"
QUEEN/QUEEN UNIT #214 @ 14'-8"

SECOND FLOOR ROOM SUMMARY

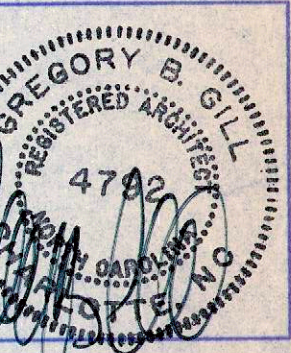
KING JACUZZI SUITE	3 UNITS
KING SUITE	4 UNITS
KING	1 UNIT
LUXURY KING SUITE	3 UNITS
QUEEN/QUEEN	11 UNITS
ACCESSIBLE UNIT	1 UNIT
TOTAL UNITS	23 UNITS

- NOTE:
- F.E.C. DENOTES FIRE EXTINGUISHER CABINETS, SEMI-RECESSED. RUN 5/8" THICK RATED GYPSUM WALL BOARD BEHIND THE CABINET CONTINUOUS, TYP. REFER TO DETAIL 10/A8.2.
 - F.E. & E. PROVIDED BY OWNER. (RECEIVED, STORED, AND INSTALLED BY CONTRACTOR)
 - H.I. & GUESTROOMS EQUIPPED FOR THE HEARING IMPAIRED. (VISUAL, AUDIBLE, & TELECOMMUNICATORS)
 - REFER TO SHEET A9.1 FOR DOOR AND WINDOW SCHEDULE.
 - REFER TO SHEET A11.1 FOR REFLECTED CEILING PLANS @ THE FIRST FLOOR PUBLIC SPACES.
 - SBC 702.1.6 REQUIRES RATED WALLS & SMOKE PARTITIONS BE EFFECTIVELY & PERMANENTLY IDENTIFIED W/SIGNS OR STENCILING. SUCH IDENTIFICATION SHALL BE PROVIDED ABOVE ANY DECORATIVE CEILING AND IN CONCEALED SPACES. SUGGESTED WORDING "FIRE & SMOKE BARRIER-PROTECT ALL OPENINGS."



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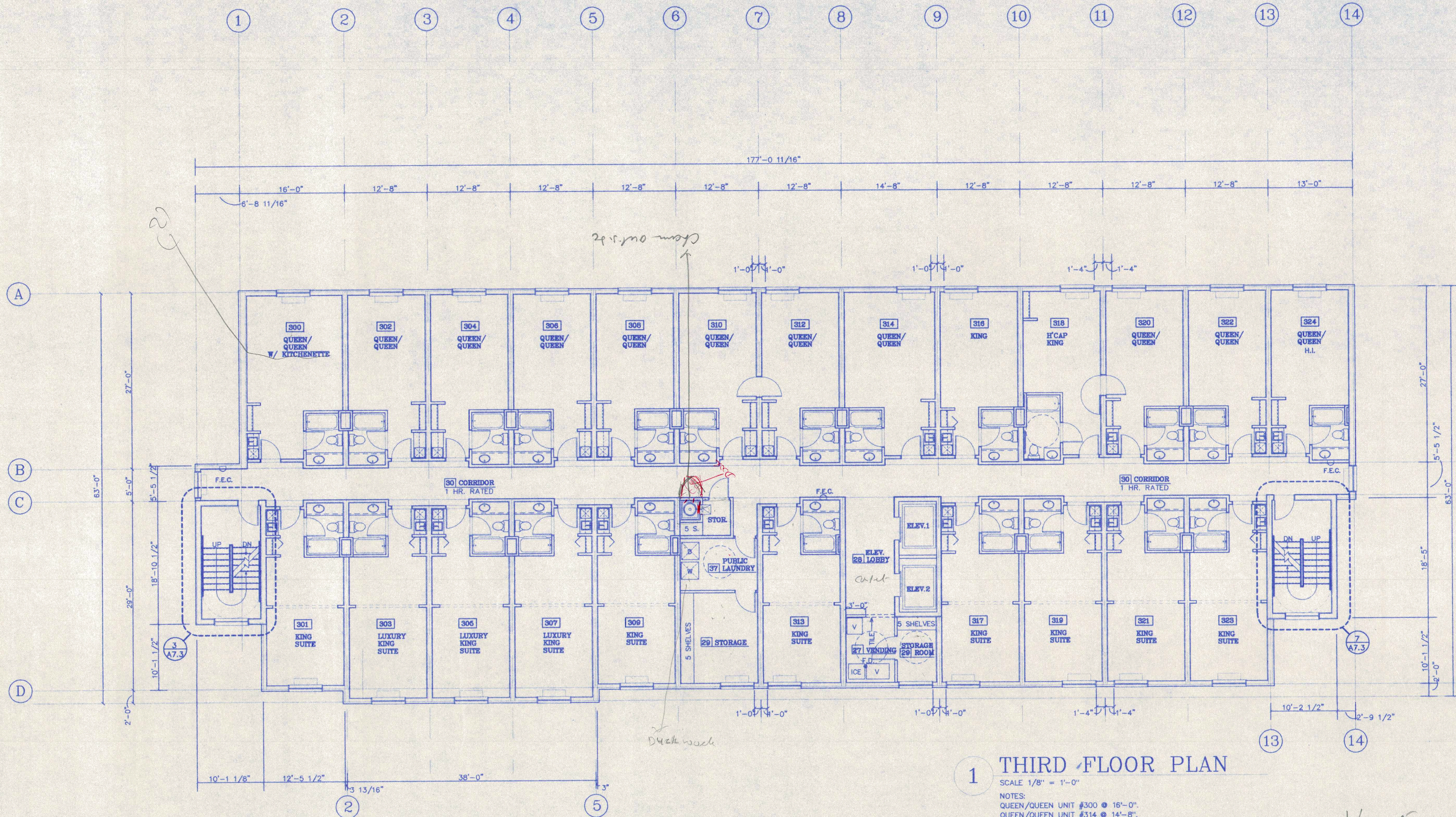
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THIRD FLOOR PLANS

A2.3

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1 THIRD FLOOR PLAN

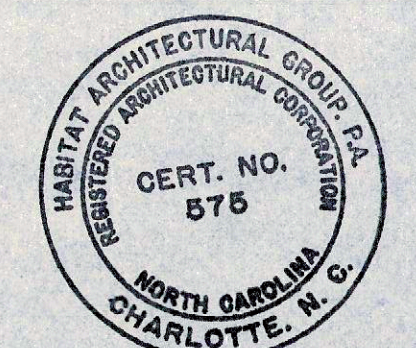
SCALE 1/8" = 1'-0"

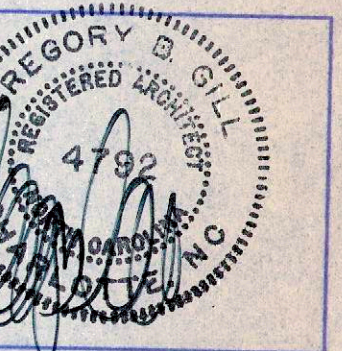
NOTES:
QUEEN/QUEEN UNIT #300 @ 16'-0"
QUEEN/QUEEN UNIT #314 @ 14'-8"

THIRD FLOOR ROOM SUMMARY

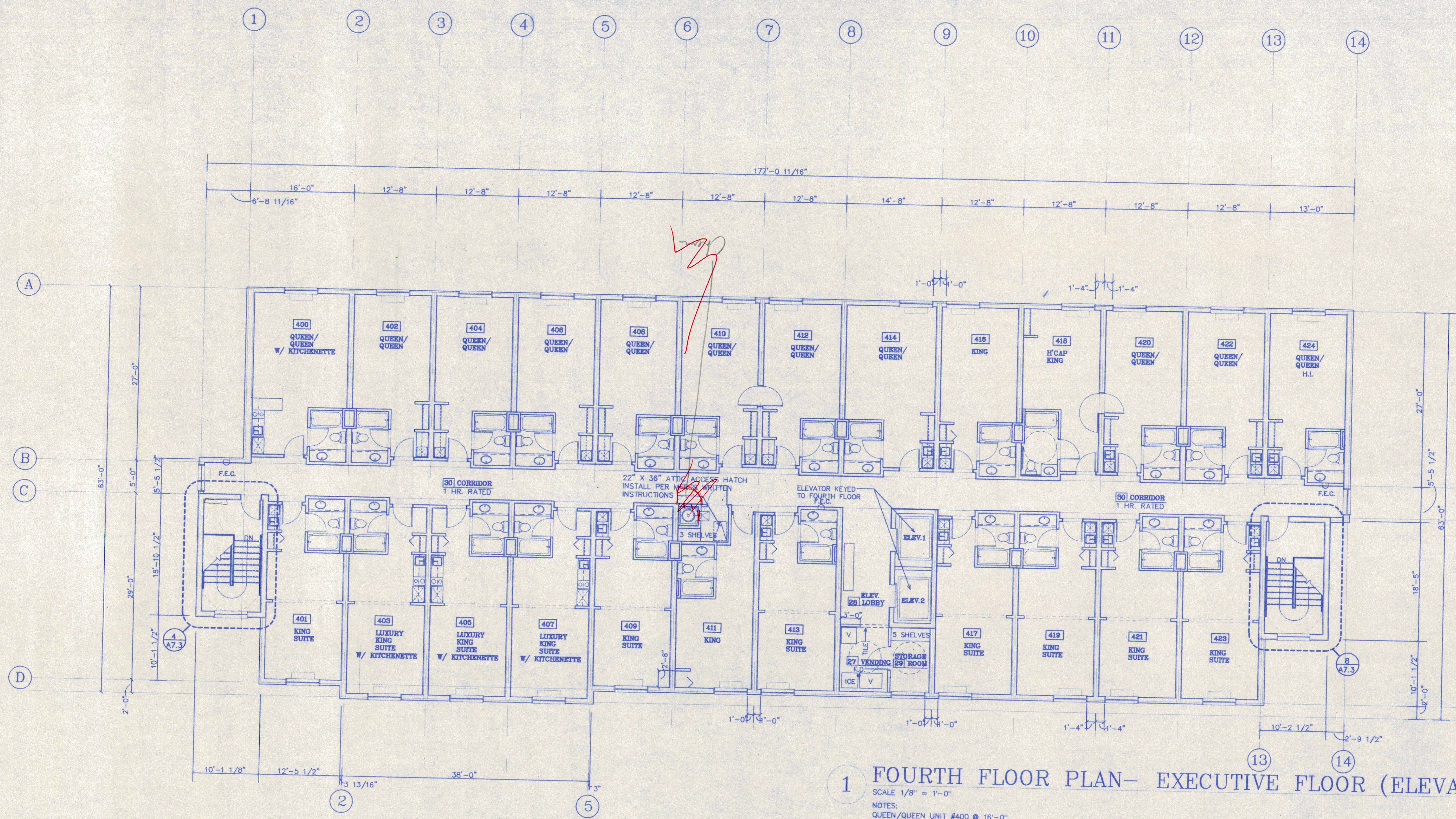
KING SUITE	7 UNITS
KING	1 UNIT
LUXURY KING SUITE	3 UNITS
QUEEN/QUEEN	11 UNITS
ACCESSIBLE UNIT	1 UNIT
TOTAL UNITS	23 UNITS

- NOTE:
- F.E.C. DENOTES FIRE EXTINGUISHER CABINETS, SEMI-RECESSED, RUN 5/8" THICK RATED GYPSUM WALL BOARD BEHIND THE CABINET CONTINUOUS, TYP. REFER TO DETAIL 10/AB.2.
 - F.F. & E. PROVIDED BY OWNER. (RECEIVED, STORED, AND INSTALLED BY CONTRACTOR)
 - H.I. & QUEEN/QUEEN SUITES EQUIPPED FOR THE HEARING IMPAIRED. (VISUAL, AUDIBLE, & TELECOMMUNICATORS)
 - REFER TO SHEET AS.1 FOR DOOR AND WINDOW SCHEDULE.
 - REFER TO SHEET A11.1 FOR REFLECTED CEILING PLANS @ THE FIRST FLOOR PUBLIC SPACES.
 - SBC 702.1.6 REQUIRES RATED WALLS & SMOKE PARTITIONS BE EFFECTIVELY & PERMANENTLY IDENTIFIED W/SIGNS OR STENCILING. SUCH IDENTIFICATION SHALL BE PROVIDED ABOVE ANY DECORATIVE CEILING AND IN CONCEALED SPACES. SUGGESTED WORDING "FIRE & SMOKE BARRIER-PROTECT ALL OPENINGS."





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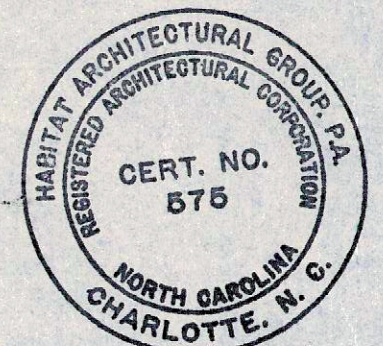
1 FOURTH FLOOR PLAN- EXECUTIVE FLOOR (ELEVATOR KEYED)

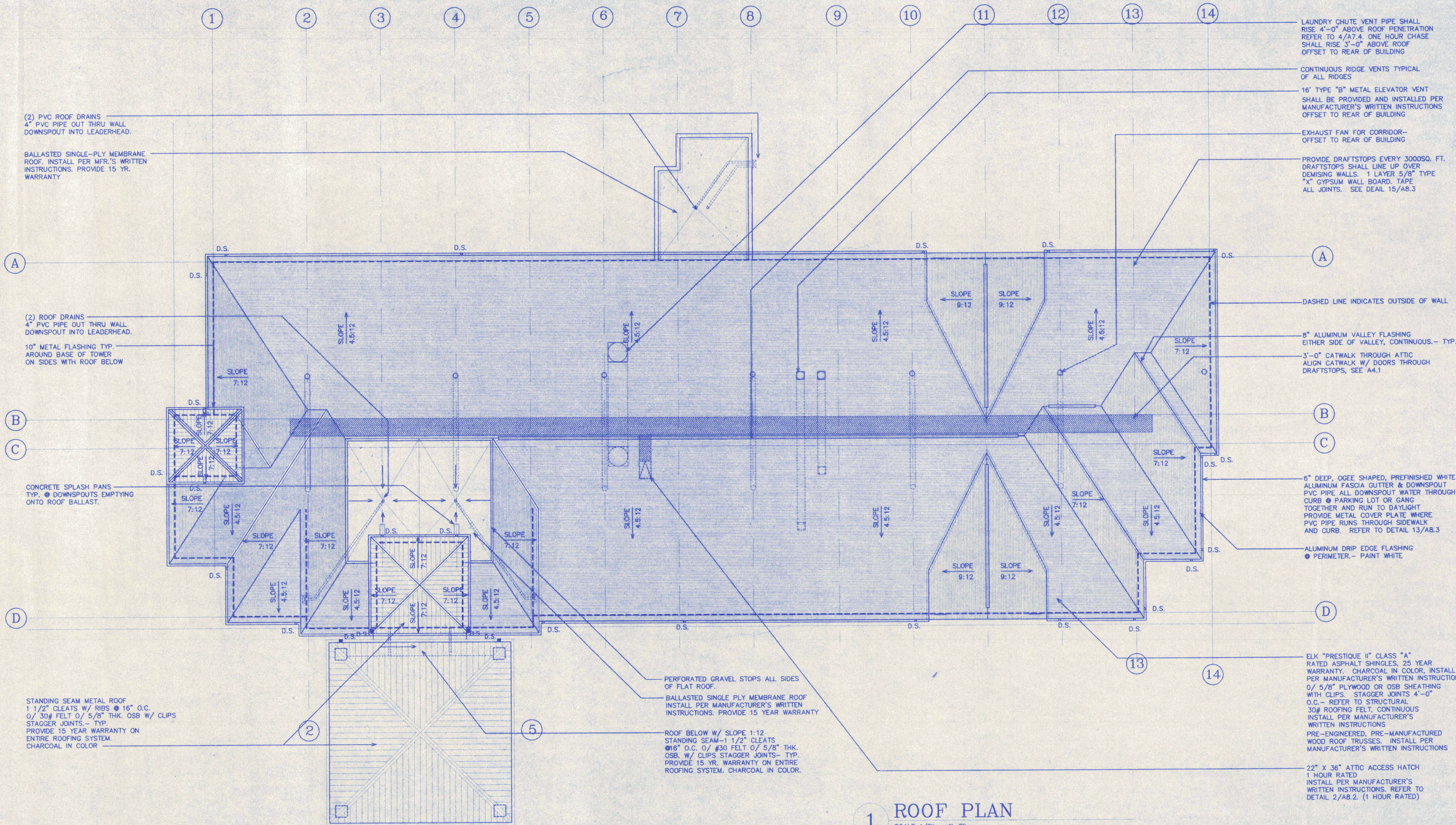
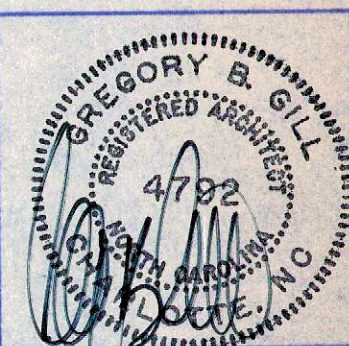
SCALE 1/8" = 1'-0"
 NOTES:
 QUEEN/QUEEN UNIT #400 @ 16'-0".
 QUEEN/QUEEN UNIT #414 @ 14'-8".

FOURTH FLOOR ROOM SUMMARY

Q/Q W/ KITCH.	1 UNIT
KING SUITE	7 UNITS
KING	1 UNIT
SMALL KING	1 UNIT
LUXURY KING SUITE	3 UNITS
QUEEN/QUEEN	10 UNITS
ACCESSIBLE UNIT	1 UNIT
TOTAL UNITS	24 UNITS

- NOTE:
- F.E.C. DENOTES FIRE EXTINGUISHER CABINETS, SEMI-RECESSED, RUN 5/8" THICK RATED GYPSUM WALL BOARD BEHIND THE CABINET CONTINUOUS, TYP. REFER TO DETAIL 10/A8.2.
 - F.F. & E. PROVIDED BY OWNER. (RECEIVED, STORED, AND INSTALLED BY CONTRACTOR)
 - H.I. & QUESTROOMS EQUIPPED FOR THE HEARING IMPAIRED. (VISUAL, AUDIBLE, & TELECOMMUNICATORS)
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1 ROOF PLAN
SCALE 1/8" = 1'-0"

NOTES:
1. D.S. DENOTES DOWNSPOUT

LAUNDRY CHUTE VENT PIPE SHALL RISE 4'-0" ABOVE ROOF PENETRATION REFER TO 4/A7.4. ONE HOUR CHASE SHALL RISE 3'-0" ABOVE ROOF OFFSET TO REAR OF BUILDING

CONTINUOUS RIDGE VENTS TYPICAL OF ALL RIDGES

16' TYPE "B" METAL ELEVATOR VENT SHALL BE PROVIDED AND INSTALLED PER MANUFACTURER'S WRITTEN INSTRUCTIONS OFFSET TO REAR OF BUILDING

EXHAUST FAN FOR CORRIDOR—OFFSET TO REAR OF BUILDING

PROVIDE DRAFTSTOPS EVERY 3000SQ. FT. DRAFTSTOPS SHALL LINE UP OVER DEMISING WALLS. 1 LAYER 5/8" TYPE "X" GYPSUM WALL BOARD. TAPE ALL JOINTS. SEE DETAIL 15/A8.3

DASHED LINE INDICATES OUTSIDE OF WALL

8" ALUMINUM VALLEY FLASHING EITHER SIDE OF VALLEY, CONTINUOUS.— TYP.

3'-0" CATWALK THROUGH ATTIC ALIGN CATWALK W/ DOORS THROUGH DRAFTSTOPS, SEE A4.1

6" DEEP, OGEE SHAPED, PREFINISHED WHITE ALUMINUM FASCIA GUTTER & DOWNSPOUT PVC PIPE ALL DOWNSPOUT WATER THROUGH CURB @ PARKING LOT OR GANG TOGETHER AND RUN TO DAYLIGHT PROVIDE METAL COVER PLATE WHERE PVC PIPE RUNS THROUGH SIDEWALK AND CURB. REFER TO DETAIL 13/A8.3

ALUMINUM DRIP EDGE FLASHING PERIMETER.— PAINT WHITE

ELK "PRESTIQUE II" CLASS "A" RATED ASPHALT SHINGLES, 25 YEAR WARRANTY. CHARCOAL IN COLOR. INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS 0/ 5/8" PLYWOOD OR OSB SHEATHING WITH CLIPS. STAGGER JOINTS 4'-0" O.C.— REFER TO STRUCTURAL 30# ROOFING FELT, CONTINUOUS INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS PRE-ENGINEERED, PRE-MANUFACTURED WOOD ROOF TRUSSES. INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS

22" X 36" ATTIC ACCESS HATCH 1 HOUR RATED INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS. REFER TO DETAIL 2/A8.2 (1 HOUR RATED)

(2) PVC ROOF DRAINS 4" PVC PIPE OUT THRU WALL DOWNSPOUT INTO LEADERHEAD.

BALLASTED SINGLE-PLY MEMBRANE ROOF. INSTALL PER MFR.'S WRITTEN INSTRUCTIONS. PROVIDE 15 YR. WARRANTY

(2) ROOF DRAINS 4" PVC PIPE OUT THRU WALL DOWNSPOUT INTO LEADERHEAD.

10" METAL FLASHING TYP. AROUND BASE OF TOWER ON SIDES WITH ROOF BELOW

CONCRETE SPLASH PANS TYP. @ DOWNSPOUTS EMPTYING ONTO ROOF BALLAST.

STANDING SEAM METAL ROOF 1 1/2" CLEATS W/ RIBS @ 16" O.C. 0/ 30# FELT 0/ 5/8" THK. OSB W/ CLIPS STAGGER JOINTS— TYP. PROVIDE 15 YEAR WARRANTY ON ENTIRE ROOFING SYSTEM. CHARCOAL IN COLOR

PERFORATED GRAVEL STOPS ALL SIDES OF FLAT ROOF.
BALLASTED SINGLE PLY MEMBRANE ROOF INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS. PROVIDE 15 YEAR WARRANTY

ROOF BELOW W/ SLOPE 1:12 STANDING SEAM—1 1/2" CLEATS @ 16" O.C. 0/ 30# FELT 0/ 5/8" THK. OSB W/ CLIPS STAGGER JOINTS— TYP. PROVIDE 15 YR. WARRANTY ON ENTIRE ROOFING SYSTEM. CHARCOAL IN COLOR.

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